EA12-005 CHRYSLER 12/13/2012

Enclosure 6A
Compliance Crash Test
KJ - Liberty- Compliance Test

SAFETY TEST VEHICLE CRASH TEST LETTER

VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 2002 MVSS REAR IMPACT COMPLIANCE TEST DATE 01/29/01

TEST PURPOSE

PRIMARY, 2002 USA 301 COMPLIANCE.

SECONDARY, 2002 TRIAS-33 COMPLIANCE

IMPACT TYPE TARGET SPEED; 30.0 MPH

> DAMAGE LOCATION; REAR CENTER BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS;

KJ CAR LINE; J 74 BODY;

3.7 LITRE ENGINE;

ENGINE; 5., LITTLE ENGINE NOTE; ELECTRONIC FUEL INJECTION TRANSMISSION; 4 SPEED AUTO ELECTRONIC 4x4

TRANS. NOTE;

VIN AS TESTED; 1J8GL48K92W MOD. VIN AS BUILT; 1J8GL48K92W MOD.

TEST SPEED 30.4 MPH BY ELECTRONIC TRAP TIMER.

TEST WEIGHT (LBS) 4883 TOTAL, 2600 FRONT, 2283 REAR

LEFT FRONT, HII BALLAST AD-70 OCCUPANTS

RESTRAINT-BELTS ONLY

RIGHT FRONT, HII BALLAST AD-60

RESTRAINT-BELTS ONLY

2002 DESIGN INTENT SWING GATE HANDLE W/146G C/B BUILD CONDITION

AND ANTI-ROTATION FINGER

ORC CALIBRATION N

MODIFY WELDS @ SPLICE JOINT TO PRODUCTION INTENT

2002 PRODUCTION INTENT EXHAUST FLANGE

2002 DESIGN INTENT FUEL LINES

TARGET WEIGHT (LBS) 4233 LBS TOTAL, 2235 LBS FRONT, 1998 LBS REAR

REPRESENTS MAX OPTION WEIGHT FOR 3.7L 4X4 KJ

WITHOUT OCCUPANTS OR LUGGAGE

 $(TARGET\ TEST\ WEIGHT\ 4863\ =\ 4233\ +\ 330\ +\ 300)$

SAFETY TEST VEHICLE CRASH TEST LETTER

VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 2002 MVSS REAR IMPACT COMPLIANCE TEST DATE 01/29/01

FUEL AND BALLAST 17.5 GALLONS OF STODDARD SOLVENT

300 LBS

50 LBS LF FLOOR 100 LBS RF FLOOR 100 LBS LR SEAT 100 LBS RR SEAT

REPORT CODES

A = TRANSDUCER DATA
C = HIGH SPEED FILM
D = ENGINEER'S REPORT
E = DUMMY KINEMATICS
F = STEERING COLUMN
H = A-POST
I = DYNAMIC CRUSH
J = ENGINE COMPARTMENT
K = DOOR CRUSH
L = FORCE/CRUSH/ENERGY
M = SPECIAL
N = CATALOG EDP DATA

A. STEFANGO M. STEBELTON 514-17-39 (AB) DISTRIBUTION

422-05-01 (AB)

DATE 01/29/01 TIME 15:35:37.

SUPPLEMENT NO. 04

ITEM KJ9472 CH	ARGE NO. 02	ISSUE DATE 01/02/01	
VC 906 30 MPH REA 2002 MVSS REAR IMPA	ACT COMPLIANCE		
TEST DATE	1 /29 / 0] SPEED 30.4 M	engineer <u>Calvin65 - Bli</u> ph source <u>TRAP</u>	1 3K.A
TEST PURPOSE		A 301 COMPLIANCE. TRIAS-33 COMPLIANCE	
IMPACT TYPE	TARGET SPEED; DAMAGE LOCATION; BARRIER TYPE; BARRIER SURFACE;	REAR CENTER REAR TYPE IV	
VEHICLE	TRANSMISSION;	KJ J 74 3.7 LITRE ELECTRONIC FUEL INJECTION 4 SPEED AUTO ELECTRONIC 4x4	Į.
	TRANS. NOTE; VIN AS TESTED; VIN AS BUILT;	1J8GL48K92W MOD. 1J8GL48K92W MOD.	
BUILD CONDITION	AND ANTI-ROTAT ORC CALIBRATION I MODIFY WELDS @ S	N PLICE JOINT TO PRODUCTION IN INTENT EXHAUST FLANGE	·
TARGET WEIGHT (LBS)	REPRESENTS MAX OF WITHOUT OCCUPANTS (TARGET TEST WEIGHT)	$\mathtt{GHT}\ 4863\ =\ 4233\ +\ 330\ +\ 300)$	Г
TEST WEIGHT (LBS)	4883 TOTAL	,2600 FRONT, 2283	_ REAR
FUEL BALLAST	17.5 GALLONS OF	STODDARD SOLVENT	
LUGGAGE BALLAST	300 LBS	44 00 0	
OTHER BALLAST	50 & LP FLOR	100 RR 36AT	
POST TEST REMARKS			

SUPPLEMENT NO. 04

OCCUPANTS

LEFT FRONT, HII BALLAST RESTRAINT-BELTS ONLY RIGHT FRONT, HII BALLAST RESTRAINT-BELTS ONLY

MECHANICAL REQ

TARGET VEHICLE PER 02KJ THIRD SHEETS FOR REAR IMPACTS (UNDERBODY AND LEFT SIDE) PLACE TARGETS ON TOP, LT AND RT SIDE OF SPARE TIRE THAT WILL BE VISIBLE IN CAMERA VIEWS PAINT REAR GATE HANDLE TO ENSURE ANY MOVEMENT IS VISIBLE IN FILM POSITION DRIV AND PASS SEATS IN MID POSITION ENSURE SPARE TIRE, SWING GATE & FLIPPER GLASS REMAIN IN PLACE FOR TEST ENSURE PARKING BRAKE IS DISENGAGED AND TRANS IS IN NEUTRAL MEASURE VEHICLE ATTITUDE AS RECEIVED AND WHEN TESTED PRESSURE TEST PRE-TEST WITH PUMP RUNNING FUEL PUMP TO BE RUNNING DURING TEST STATIC ROLL VEHICLE POST TEST PAINT RAILS & REAR UNDERBODY COMPONENTS INCLUDING

FUEL FILLER LINE, PASS THRU HOLE IN RAIL, FUEL TNAK CANISTER, REAR SUSPENSION, REAR BUMPER, OVOR CANISTER, LINES AND EQUIPMENT, ETC. IN

INSTRUMENTATION REQ

LEFT & RIGHT RAIL FWD RR CTRL ARM X,Z (4) LEFT & RIGHT RAIL MID TANK X, Z (4) FUEL TANK RAIL PASS THRU X,Y,Z (3) FUEL TANK BOTTOM CTR (GLUE ON) X,Y,Z (3) SWINGGATE ABOVE DOOR HANDLE X,Z (2) ORC TOP FRONT LEFT X,Y,Z (3) DRIVER SQUIB EVENT (1) LEFT & RIGHT FRONT SILLS X, Z (4) LEFT & RIGHT REAR SILLS X,Z (4) ENSURE DRIV & PASS AIRBAGS, SIDE CURTAINS & PRETENSIONERS DO NOT DEPLOY

CONTRASTING COLORS FOR UNDERBODY VIEW

SUPPLEMENT NO. 04

PHOTOGRAPHIC REO

1-VELOCITY CAMERA

1-LEFT OVERALL (DYNAMIC CRUSH)

1-RIGHT OVERALL

2-PIT CAMERAS FOR REAR UNDERBODY ANALYSIS

1-LT SIDE CLOSE UP OF FUEL FILLER AREA FROM PIT 2-LT & RT CLOSE-UP OF REAR QUARTERS OF VEHICLE ALL CAMERAS TO HAVE DIGITAL TIMING IF POSSIBLE PRE & POST TEST PHOTOS OF OVERALL & UNDERBODY (REAR), FRAME RAILS, FUEL TANK/REAR AXLE AREA, ETC.

PHOTOS OF ALL INSTRUMENTATION

FILM ANALYSIS

REAR DYNAMIC CRUSH - IF REQUESTED

REAR UNDERBODY ANALYSIS - IF REQUESTED

VEHICLE VELOCITY - IF REQUESTED

REMARKS

TEST REQUESTER: ANNE STEFANGO 733-5368

MAKE 1 COPY OF FILM AND VIDEO SEND TO ANNE STEFANGO 514-17-39

PLEASE RETURN VEHICLE TO PROC ATTN: PAM MORTON

T. E. REPORT FUEL SYSTEM REPORT REQUIRED

REPORT CODES

A = TRANSDUCER DATA
C = HIGH SPEED FILM
E = DUMMY KINEMATICS
G = UNDERBODY
I = DYNAMIC CRUSH
K = DOOR CRUSH
M = SPECIAL

B = ALL FILM DATA
D = ENGINEER'S REPORT
F = STEERING COLUMN
H = A-POST
J = ENGINE COMPARTMENT
L = FORCE/CRUSH/ENERGY
N = CATALOG EDP DATA

N = CATALOG EDP DATA

M = SPECIAL

* = REPORT REQUESTOR

DISTRIBUTION

514-17-39 (AB) A. STEFANGO M. STEBELTON 422-05-01 (AB)

SUPPLEMENT NO. 04

SUPPLEMENT 01

VEHICLE

W200223 MOD. MODIFY VIN AS TESTED; TO READ VIN AS TESTED; 1J8GL48K92W MOD. WL00223 MODIFY MOD.

MODIFY VIN AS BUILT;
TO READ VIN AS BUILT; 1J8GL48K92W MOD.

SUPPLEMENT 02

INSTRUMENTATION REQ

ADD LEFT & RIGHT FRONT SILLS X,Z (4)

LEFT & RIGHT REAR SILLS X, Z (4) ADD

BUILD CONDITION

ADD 2002 PRODUCTION INTENT EXHAUST FLANGE

ADD 2002 DESIGN INTENT FUEL LINES

HANICAL REQ

DELETE PRESSURE CHECK POST TEST

TEST PURPOSE

SECONDARY, 2002 TRIAS-33 COMPLIANCE \mathtt{ADD}

SUPPLEMENT NO. 03

	RGE NO. 02 ISSUE DATE 01/02/01/
VC 9026 2002 MVSS REAR IMPA	
TEST DATE	SPEED MPH SOURCE Slocks
TEST PURPOSE	PRIMARY, 2002 USA 301 COMPLYANCE.
IMPACT TYPE	TARGET SPEED; 30.0 MPH DAMAGE LOCATION; REAR CENTER BARRIER TYPE; REAR TYPE IV BARRIER SURFACE; PLYWOOD
VEHICLE	BODY CLASS; KJ CAR LINE; J BODY; 74 ENGINE; 3.7 LITRE ENGINE NOTE; ELECTRONIC FUEL INJECTION TRANSMISSION; 4 SPEED AUTO ELECTRONIC 4×4 TRANS. NOTE; VIN AS TESTED; 1J8GL48K92W: MOD. VIN AS BUILT; 1J8GL48K92W: MOD.
BUILD CONDITION	2002 DESIGN INTENT SWING GATE HANDLE W/146G C/B AND ANTI-ROTATION FINGER ORC CALIBRATION N MODIFY WELDS @ SPLICE JOINT TO PRODUCTION INTENT 2002 PRODUCTION INTENT EXHAUST FLANGE 2002 DESIGN INTENT FUEL LINES
TARGET WEIGHT (LBS)	4233 LBS TOTAL, 2235 LBS FRONT, 1998 LBS REAR REPRESENTS MAX OPTION WEIGHT FOR 3.7L 4X4 KJ WITHOUT OCCUPANTS OR LUGGAGE (TARGET TEST WEIGHT 4863 = 4233 + 330 + 300)
TEST WEIGHT (LBS)	3 4883 TOTAL, 2600 FRONT, 2283 REAR
FUEL BALLAST	17.5 GALLONS OF STODDARD SOLVENT
LUGGAGE BALLAST	300 LBS
OTHER BALLAST	50# LF FLOOR +100# RF FLOOR
POST TEST REMARKS	

SUPPLEMENT NO. 03

OCCUPANTS

LEFT FRONT, HII BALLAST RESTRAINT-BELTS ONLY RIGHT FRONT, HII BALLAST RESTRAINT-BELTS ONLY

AD NO 70 AD NO 60

MECHANICAL REO

TARGET VEHICLE PER 02KJ THIRD SHEETS FOR REAR IMPACTS (UNDERBODY AND LEFT SIDE) PLACE TARGETS ON TOP, LT AND RT SIDE OF SPARE TIRE THAT WILL BE VISIBLE IN CAMERA VIEWS PAINT REAR GATE HANDLE TO ENSURE ANY MOVEMENT IS VISIBLE IN FILM POSITION DRIV AND PASS SEATS IN MID POSITION ENSURE SPARE TIRE, SWING GATE & FLIPPER GLASS REMAIN IN PLACE FOR TEST ENSURE PARKING BRAKE IS DISENGAGED AND TRANS IS IN NEUTRAL MEASURE VEHICLE ATTITUDE AS RECEIVED AND WHEN PRESSURE TEST PRE-TEST WITH PUMP RUNNING FUEL PUMP TO BE RUNNING DURING TEST

STATIC ROLL VEHICLE POST TEST PAINT RAILS & REAR UNDERBODY COMPONENTS INCLUDING FUEL FILLER LINE, PASS THRU HOLE IN RAIL, FUEL TNAK CANISTER, REAR SUSPENSION, REAR BUMPER, OVOR CANISTER, LINES AND EQUIPMENT, ETC. IN CONTRASTING COLORS FOR UNDERBODY VIEW

INSTRUMENTATION REO

LEFT & RIGHT RAIL FWD RR CTRL ARM X,Z (4) LEFT & RIGHT RAIL MID TANK X, Z (4) FUEL TANK RAIL PASS THRU X,Y,Z (3) FUEL TANK BOTTOM CTR (GLUE ON) X,Y,Z (3) SWINGGATE ABOVE DOOR HANDLE X.Z (2) ORC TOP FRONT LEFT X,Y,Z (3) DRIVER SQUIB EVENT (1) LEFT & RIGHT FRONT SILLS X,Z (4) LEFT & RIGHT REAR SILLS X, Z (4) ENSURE DRIV & PASS AIRBAGS, SIDE CURTAINS & PRETENSIONERS DO NOT DEPLOY

SUPPLEMENT NO. 03

PHOTOGRAPHIC REQ

1-VELOCITY CAMERA

1-LEFT OVERALL (DYNAMIC CRUSH)

1-RIGHT OVERALL

2-PIT CAMERAS FOR REAR UNDERBODY ANALYSIS

1-LT SIDE CLOSE UP OF FUEL FILLER AREA FROM PIT 2-LT & RT CLOSE-UP OF REAR QUARTERS OF VEHICLE ALL CAMERAS TO HAVE DIGITAL TIMING IF POSSIBLE PRE & POST TEST PHOTOS OF OVERALL & UNDERBODY (REAR), FRAME RAILS, FUEL TANK/REAR AXLE AREA,

ETC.

PHOTOS OF ALL INSTRUMENTATION

FILM ANALYSIS

REAR DYNAMIC CRUSH - IF REQUESTED

REAR UNDERBODY ANALYSIS - IF REQUESTED

VEHICLE VELOCITY - IF REQUESTED

REMARKS

TEST REQUESTER: ANNE STEFANGO 733-5368

MAKE 1 COPY OF FILM AND VIDEO SEND TO ANNE STEFANGO 514-17-39

PLEASE RETURN VEHICLE TO PROC ATTN: PAM MORTON

T. E. REPORT FUEL SYSTEM REPORT REQUIRED

REPORT CODES

A = TRANSDUCER DATA
C = HIGH SPEED FILM
D = ENGINEER'S REPORT
E = DUMMY KINEMATICS
F = STEERING COLUMN
G = UNDERBODY
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I = DYNAMIC CRUSH
J = ENGINE COMPARTMENT
K = DOOR CRUSH
L = FORCE/CRUSH/ENERGY
M = SPECIAL
N = CATALOG EDP DATA

* = REPORT REQUESTOR

DISTRIBUTION

514-17-39 (AB) 422-05 01 A. STEFANGO A. STEFANGO M. STEBELTON 422-05-01 (AB)

SUPPLEMENT NO. 03

SUPPLEMENT 01

VEHICLE

W700223 MODIFY VIN AS TESTED; MOD. TO READ VIN AS TESTED; 1J8GL48K92W: MOD. VIN AS BUILT; MODIFY W: MOD.

TO READ VIN AS BUILT; 1J8GL48K92W: MOD.

SUPPLEMENT 02

INSTRUMENTATION REQ

ADD LEFT & RIGHT FRONT SILLS X, Z (4) ADD LEFT & RIGHT REAR SILLS X, Z (4)

SUPPLEMENT 03

BUILD CONDITION

ADD 2002 PRODUCTION INTENT EXHAUST FLANGE

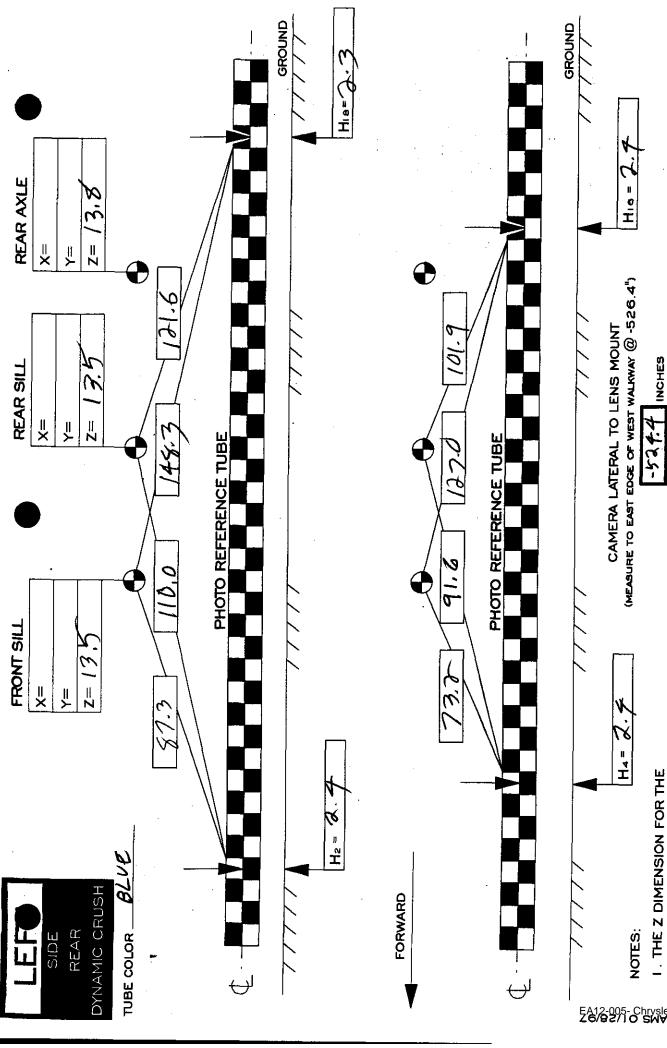
ADD 2002 DESIGN INTENT FUEL LINES

HANICAL REO

PRESSURE CHECK POST TEST DELETE

VEHICLE ATTITUDE

	TEST NUMBER VC	<u>9026</u>		TEST	ENGINEE	R COLLINGS
	ITEM NUMBER KJ	<u>9472</u>		TEST	DATE	/_/_
	FEND	ER/WHEELV	VELL HEIC	GHTS	s:	ILL HEIGHTS
		LF	LR	RF	RR	Į.
AS	RECEIVED	32.8	33.5	32,6	33,3	
AS	BUILT-UP					
AS	TESTED	31.6	30.1	31.4	31.9	



FOR REAR IMPACT TESTS - DIMENSIONING
BETWEEN SILL TARGETS AND PHOTO REFERENCE TUBE
TEST ENGR COLL(NS)
VC 9086

IF OTHER TUBE POINTS ARE

۸i

AT THE TEST SITE

USED, SO INDICATE

Se\8S\10 AMARON 47 3R9.3BUT 28\8500 - Chrysler -002887

SILL TARGETS AND REAR AXLE MUST BE RETAKEN

X, Y, Z DIMENSIONS

TEST NUMBER VC9026

ITEM NUMBER KJ9472 V.I.N. 1J8GL48K92W TEST DATE __/_
TEST TYPE: 30 MPH REAR TYPE IV MOVING BARRIER IMPACT

1	100/61	ν C 1	1	1	ı	1	1 1
LOCATION	X	Y	Z	LOCATION	x	Y	Z
BC1		0.0	xxxx	BC2	173,2	0.0	xxxx
B1	165,4	- 19,5	xxxx	B2	165.3	19.6	xxxx
Ul	14.5	Z6.6	11.4	U2	14.8	18.3	11.2
U3	123.8	7.8	19.6	U4	124.0	7.3	18.6
U5	131.5	0.2	9.0	U6	145,2	18.9	22.9
U7	138,2	- 19.6	23.0	U8	14.7	4,4	12.1
U9	145.0	- 3.5	12.2	U10	151.4	4.5	15.5
U11	151.3	- 3.4	12.2	U12	15%.4	18.9	22.9
U13	155.6	- 16,6	855				
UC1	163.3	- 0,3	17.8				
LFS	59.9	- 32,1	13.6				
LMS	90.3	- 33,2	13.7				
LAP	57,3	50 33.9	47.1				
LRA	37,8	50- 34.5	13.7				
1	1		A Part		78	ST 451	 -

TRAMMEL DIMENSIONS LF 31.6LFS-LMS PRE 30.41POST NA RF 31.4 RR 31.9

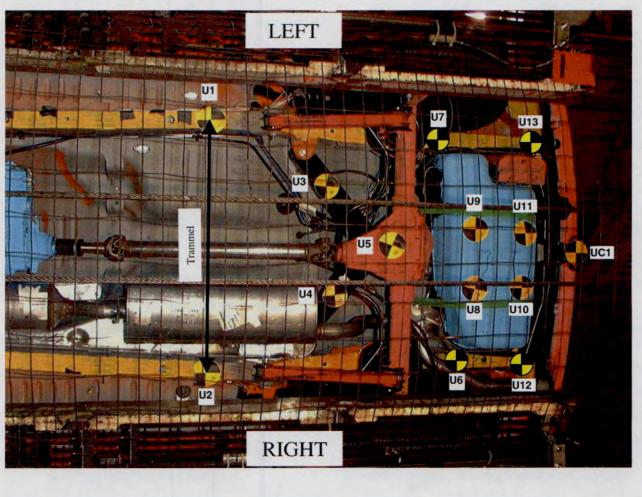
EA12-005- Chrysler -002888

Program: 02KJ

REAR UNDERBODY FOR ALL REAR IMPACTS

VC9026; Item No. KJ9472

Visibility Approved: DGL / 05/03/1999 Approved for CPG Use: GAB / 05/03/1999 Impact Analysis Engineer: DCC / 01/21/2000 DCC T/L: 722-1918; PAGER: 313-709-9150



FRONT

Guidelines to Placement of Critical Targets:

ITEM	COMMENTS
U1 & U2	5.5" IN FRONT OF FORWARD EDGE OF CONTROL ARM MOUNTING BRACKET.
U3 & U4	CENTER OF UPPER SWING ARMS.
U5	ON CENTER OF REAR DIFFERENTIAL
U12 & U13	END OF RAILS AT REAR BUMPER CROSSMEMBER
U6	14" FORE OF U12
U7	ON LEFT RAIL 16" FORWARD OF U13
U8,U9,U10	
& U11	IN SQUARE PATTERN, INSIDE STRAPS ON BOTTOM SURFACE OF THE FUEL TANK
UC1	CENTERED ON REAR BUMPER CROSSMEMBER

1/8/01



Version: 5

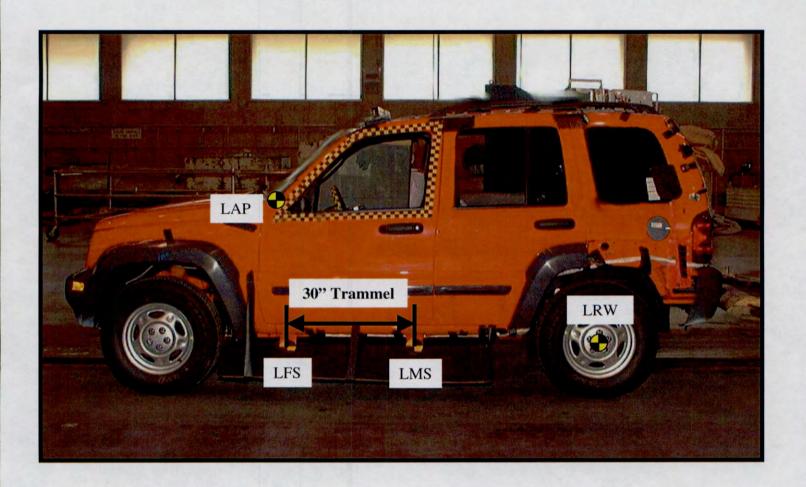
Last Revised: 09/18/00

Program: 02KJ

LEFT SIDE FOR ALL REAR IMPACTS

VC9026; Item No. KJ9472

Visibility Approved: DGL / 05/03/1999
Approved for CPG Use: GAB / 05/03/1999
Impact Analysis Engineer: DCC / 01/21/2000
DCC T/L: 722-1918; PAGER: 313-709-9150



Guidelines to Placement of Critical Targets:

ITEM	COMMENTS	
LMS	BOTTOM OF B-POST ON SILL	
LRS	30" FORE OF LMS	
LRW	CENTER OF REAR WHEEL	

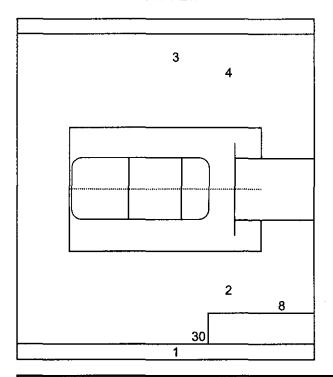
1/8/01

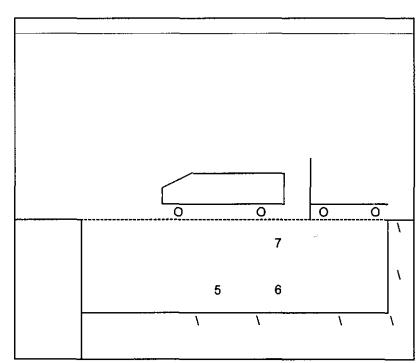
PAGE 2



Version: 5

Last Revised: 09/18/00





TEST NUMBER:

VC9026

VEHICLE TYPE:

KJ

TEST TYPE:

30 MPH REAR TYPE IV IMPACT

REQUEST DATE:

01/10/01

TEST ENGINEER:

COLLINGS

	VII	EW DESCRIPTION	CAM	LENS	LENS	LENS	F-	PNL	SKT	BL MISC
#	/	A=ANALYSIS	S/N	FL	S/N	MFG.	STP			
1	A	LT - DYNAMIC CRUSH	428	18MM	116693	KIN				
2	T	LT - SWING GATE & SPARE (HDRS)	1873	35MM	111305	KIN				
3		RIGHT OVERALL	1874	13MM	105426	KIN				
4	Т	RT - SWING GATE HANDLE (HDRS)	283	ZOOM	#3	CAN				
5	A	lPIT - SOUTH	432	13MM	13-7	cos	4 1/4	+	\vdash	
6	Α	PIT - NORTH	431	13MM	13-4	cos	4 1/4			
¥7	T	PIT - FUEL TANK & FILL TUBE (HDRS)	284	ZOOM	#5	CAN			<u> </u>	
8	Α	VELOCITY	286	100MM	B2088	LGT	8			
30	V	EKTAPRO - LEFT OVERALL	EKTA	ZOOM	#1	CAN	8			
		W/O: (1) PRINT, (1) VHS			,					
		TO: A. STEFANGO								

D:D NOT RUN

1/29/01

FUEL SYSTEM AND STATIC ROLLOVER SUMMARY

TEST NUM	BER VC9026,	ITEM NUM	IBER KJ9472	,	TEST ENGINEER	COLLINGS
V.I.N. 1	J8GL48K92W:	, TES	ST DATE	29/01.	ROLL DATE 1/30	<u> </u>
	E; 30 MPH T					
FUEL; TY	PE AND QUAN	ITY767	S.G. STOP	DARD S	OLV ENT , <u>17.5</u> G	ALLONS
TEST SPE	ED 30.4	ИРН,	TEST WEIGH	T48	POUNDS.	
	PACT LEAKAGI			_		
		1ST	5 MIN	<u>5_</u>		
		NEXT 2	5 MIN	2		
POST TE	ST PRESSURE	CHECK /	1A			
ELECTRI	C FUEL PUMP	RUN /	/A			
	STATIC ROLL			,		
				r STD	E DOWN FIRST	
		_			RING STATIC ROLI	· 1
ROLL TIME		TODD HEAR	BOCHII		NING BITTE ROLL	TOTAL
	1ST 5 MIN					0
1:55	POST 5 MIN					0
90-180	1ST 5 MIN					0
1:57	POST 5 MIN		 			0
180-270	1ST 5 MIN					0
1:58	POST 5 MIN					0
	1ST 5 MIN					0
2:00	POST 5 MIN					
	IN 5 MINUT	ES, ** OUN	CES PER MI	NUTE		
OST TEST	r fuel systi	EM OBSERVA	TIONS			
						
	-					
	M MODIFICATI					

EA12-005- Chrysler -002892

DATE 01/30/01 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 10:26:43. EDP TEST LETTER DEPT 5320

VC09026 ITEM KJ9472

VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472

2002 MVSS REAR IMPACT COMPLIANCE

TEST DATE 01/29/01

ELLED TEST 2001

PRIMARY, 2002 USA 301 COMPLIANCE. TEST PURPOSE

SECONDARY, 2002 TRIAS-33 COMPLIANCE

IMPACT TYPE TARGET SPEED; 30.0 MPH

DAMAGE LOCATION; REAR CENTER BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE

BODY CLASS; KJ
CAR LINE; J
BODY; 74
ENGINE; 3.7 LITRE
ENGINE NOTE; ELECTRONIC FUEL INJECTION
TRANSMISSION; 4 SPEED AUTO ELECTRONIC 4x4
TRANS. NOTE;
VIN AS TESTED; 1J8GL48K92W MOD.
VIN AS BUILT; 1J8GL48K92W MOD.

TEST SPEED 30.4 MPH BY ELECTRONIC TRAP TIMER.

TEST WEIGHT (LBS) 4883 TOTAL, 2600 FRONT, 2283 REAR

OCCUPANTS AD-70 LEFT FRONT, HII BALLAST

RESTRAINT-BELTS ONLY

AD-60 RIGHT FRONT, HII BALLAST

RESTRAINT-BELTS ONLY

BUILD CONDITION 2002 DESIGN INTENT SWING GATE HANDLE W/146G C/B

AND ANTI-ROTATION FINGER

ORC CALIBRATION N

MODIFY WELDS @ SPLICE JOINT TO PRODUCTION INTENT

2002 PRODUCTION INTENT EXHAUST FLANGE

2002 DESIGN INTENT FUEL LINES

TARGET WEIGHT (LBS) 4233 LBS TOTAL, 2235 LBS FRONT, 1998 LBS REAR

REPRESENTS MAX OPTION WEIGHT FOR 3.7L 4X4 KJ

WITHOUT OCCUPANTS OR LUGGAGE

 $(TARGET\ TEST\ WEIGHT\ 4863\ =\ 4233\ +\ 330\ +\ 300)$

FUEL AND BALLAST 17.5 GALLONS OF STODDARD SOLVENT

300 LBS

50 LBS LF FLOOR 100 LBS RF FLOOR 100 LBS LR SEAT 100 LBS RR SEAT

DATE 01/30/01 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 10:26:43. EDP TEST LETTER DEPT 5320

VC09026 ITEM KJ9472 VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 2002 MVSS REAR IMPACT COMPLIANCE TEST DATE 01/29/01

EDP TECHNICIAN S. MARCHENIA

No. of Pages 50

CC

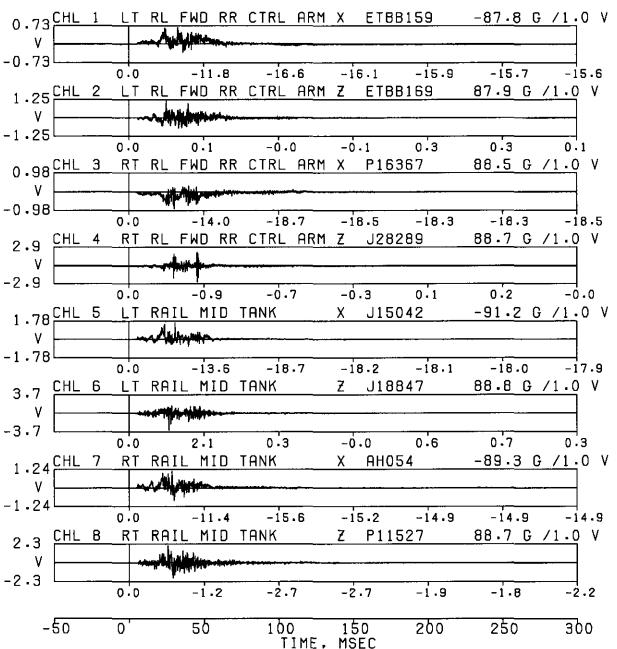
M. STEBELTON 422-05-01 A. STEFANGO 514-17-39

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           TSR Channels 025 - 028
       005 TSR Channels 033 - 034
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       014 LT RAIL MID TANK X, Chl 5
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       015 LT RAIL MID TANK X, Chl 5, VD
       016 LT RAIL MID TANK Z, Chl 6
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       017 RT RAIL MID TANK X, Chl 7
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       020 FUEL TANK RL PASS-THRUX, Chl 9
PAGE:
       021 FUEL TANK RL PASS-THRUX, Chl 9,
       022 FUEL TANK RL PASS-THRUY, Chl 10
PAGE:
      023 FUEL TANK RL PASS-THRUZ, Chl 11
PAGE:
       024 FUELTANK BTM CTR X, Chl 12
PAGE:
       025 FUELTANK BTM CTR X, Chl 12,
PAGE:
       026 FUELTANK BTM CTR Y, Chl 13
PAGE:
PAGE:
       027 FUELTANK BTM CTR Z, Chl 14
PAGE:
       028 SWINGGATE ABV DR HANDLX, Chl 15
PAGE:
       029 SWINGGATE ABV DR HANDLX, Chl 15, VD
       030 SWINGGATE ABV DR HANDLZ, Chl 16
PAGE:
       031 ORC TOP FT LT X, Chl 17
PAGE:
PAGE:
       032 ORC TOP FT LT X, Chl 17, VD
PAGE:
       033 ORC TOP FT LT Y, Chl 18
       034 ORC TOP FT LT Z, Chl 19
PAGE:
       035 LEFT FRONT SILL X, Chl 20
PAGE:
       036 LEFT FRONT SILL X, Chl 20, VD
PAGE:
PAGE:
       037 LEFT FRONT SILL Z, Chl 21
       038 RIGHT FRONT SILL X, Chl 22
PAGE:
       039 RIGHT FRONT SILL X, Chl 22, VD
PAGE:
       040 RIGHT FRONT SILL Z, Chl 23
PAGE:
       041 LEFT REAR SILL X, Chl 24
PAGE:
       042 LEFT REAR SILL X, Chl 24, VD
PAGE:
PAGE:
       043 LEFT REAR SILL Z, Chl 25
PAGE:
       044 RIGHT REAR SILL X, Chl 26
       045 RIGHT REAR SILL X, Chl 26, VD
PAGE:
       046 DRIVER SQUIB EVENT, Chl 28, Event
                                                                    *N*
PAGE:
                                ******
 ****** VC09026C
TITLE: Moving barrier Channels
                                                  Pages 047 - 050
PAGE:
       047 LT RAIL MBAR MID X Chl 33
PAGE:
      048 LT RAIL MBAR MID X , Chl 33, VD
PAGE:
      049 RT RAIL MBAR MID X Chl 34
```

050 RT RAIL MBAR MID X , Chl 34, VD

PAGE:

VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 PAGE 001 2002 MVSS REAR IMPACT COMPLIANCE 0F 050 DATA SET 01/29/01BG IMPACT ANALYSIS DEPT. 5320 JAN 30,2001 ERRATA 1 300 -50 50 100 150 200 250



NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

TRANSDUCER SUMMARY REPORT VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 PAGE 002 2002 MVSS REAR IMPACT COMPLIANCE 0F 050 IMPACT ANALYSIS DEPT, 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA -50 50 100 150 200 250 300 1.13 CHL 9 FUEL TANK RL PASS-THRUX ETBBB66 88.6 G /1.0 V ٧ -1.13 0.0 -11.8 -16-5 -15.9 -15.7 -15.5 -15.4 CHL 10 FUEL TANK RL PASS-THRUY J25340 -88.1 G /1.0 V ٧ -2.9 0.8 -Ó.B - o . 6 CHL 11 FUEL TANK RL PASS-THRUZ AHTJ7 88.4 G /1.0 V 3.0 -3.0 -Ò.3 -1.00.0 0.6 -0.9 -0.0-0.2 -88.9 G /1.0 V CHL 12 FUELTANK BTM CTR X J17361 4.1 ٧ -4.10.0 -19.7 -13.2 -18.0 -16.9 -16.2 -16 4 CHL 13 FUELTANK BTM CTR Υ AHT27 -87.3 G /1.0 V 2.8 ٧ -2.8 2:5 0.71.2 1.5 0.0 1.6 -89.6 G /1.0 V CHL 14 FUELTANK BTM CTR AH066 3.3 ٧ -3.3 0:0 -2.9 -0.7-3.7 -á.o -3.5 -4.190.5 G /1.0 V CHL 15 SWINGGATE ABV DR HANDLX AAH65 4.6 ٧ -4.6 0.0 -20.2 -19.6 -21.6 -21.5-21 5 -21.8 SWINGGATE ABV DR HANDLZ AGP65 89.1 G /1.0 V CHL 16 6.3 ٧ -6.3

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

TIME, MSEC

1.5

150

2.1

200

2.2

250

1.8

100 ·

3.2

50

0.0

0

-50

1.7

300

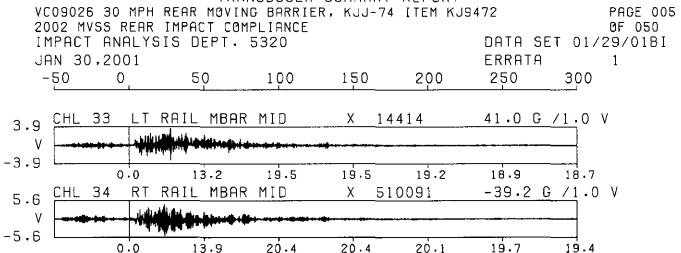
VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 PAGE 003 2002 MVSS REAR IMPACT COMPLIANCE OF 050 IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BH JAN 30,2001 ERRATA -50 0 50 100 300 150 200 250 1.30 CHL 17 ORC TOP FT LT AAKB7 -76.7 G /1.0 V ٧ -1.30 0.0 -12.1 -18.5 -18.3 -18.5 -18.7 -19.0 1.10 CHL 18 ORC TOP FT LT Υ J15463 79.4 G /1.0 V ٧ -1.100.0 0.3 0.7 0.2 0.6 0.8 1.27 CHL 19 ORC TOP FT LT P13322 76.8 G /1.0 V Z ٧ -1.270.0 -1.3 -0.7 -0.2 -0.2 -0.1 -0.2 0.65 CHL 20 LEFT FRONT SILL X ETBBB21 88.9 G /1.0 V ٧ -0.65 0.0 -11-1 -15-9 -15.4 -15-1 -14 9 -14 8 1.05 CHL 21 LEFT FRONT SILL Z ETBBB33 88.3 G /1.0 V ٧ -1.05-0.4 0.0 -1.0 - Ó - 6 -0.5 1.19 CHL 22 RIGHT FRONT SILL X J17456 -90.3 G /1.0 V ٧ -1.190.0 -12.4 -17.2 -16.9 -16.7-i6.7 -16.7 1.53 CHL 23 89.8 G /1.0 V RIGHT FRONT SILL LN80B ٧ -1.53 0.0 -0.7 0.5 0.6 -Ò.1 0:6 0.4 1.01 CHL 24 LEFT REAR SILL ETBBB99 90.0 G /1.0 V ٧ -1.01 0.0 -11.8 -16.9 -16.5 -16.5 -16 5 -16 6 -50 5b 150 200 250 300 100 TIME, MSEC

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-

VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 PRGE 004 2002 MVSS REAR IMPACT COMPLIANCE OF 050 DATA SET 01/29/01BH IMPACT ANALYSIS DEPT. 5320 JAN 30,2001 **ERRATA** -50 50 100 150 200 250 300 Z ETBBB92 CHL 25 LEFT REAR SILL 88.4 G /1.0 V 2.5 ٧ -2.5 0.3 0.0 0.4 0:3 0.8 0.9 0.7 1.88 CHL 26 RIGHT REAR SILL -89.1 G /1.0 V Χ AABE9J ٧ -1.88 -12.4 0.0 -17.1-16.7 -16 2 -16.1 -16.0 RIGHT REAR SILL 90.4 G /1.0 V Z J29428 3.9 ٧ -3.9 0:0 0.0 68.0 138.3 195.1 226 - 2 227.1 0.05<u>CHL 28</u> DRIVER SQUIB EVENT ΕE 0.5 VOLT /1.0 V ٧ -0.05 0:0 0.0 0.0 0.0 0:0 0:0 0.0

-50 0' 50 100 150 200 250 300 TIME, MSEC

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.



-50 0' 50 100 150 200 250 300 TIME, MSEC

NOTE COMPUTED FIRST INTEGRAL VALUES ARE INDICATED BELOW EACH CHANNEL AND BRIDGED DATA IS INDICATED BY A -B-.

-30

25

5b

75

150

175

125

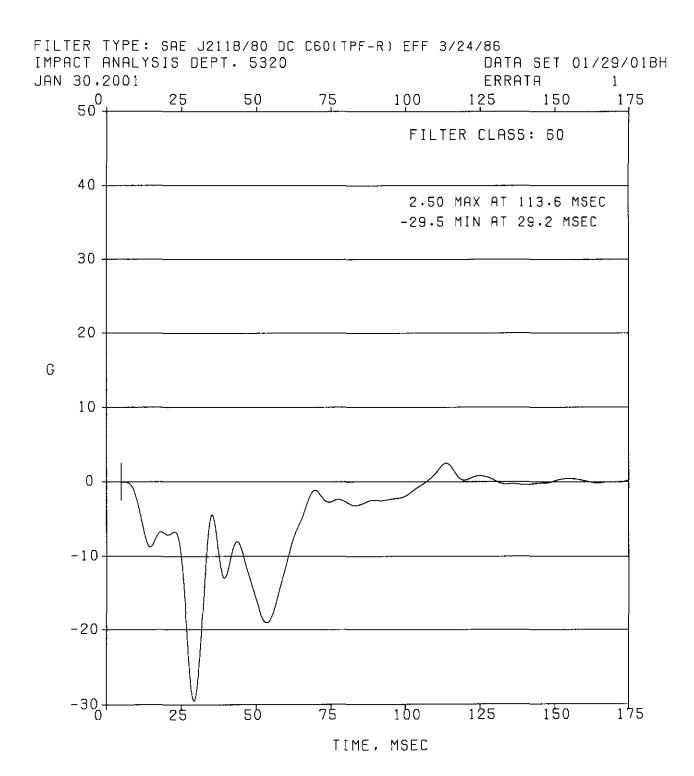
100

TIME, MSEC

AVERAGE OF

CHANNEL 020 LEFT FRONT SILL CHANNEL 022 RIGHT FRONT SILL

X ETBBB21 X J17456



1

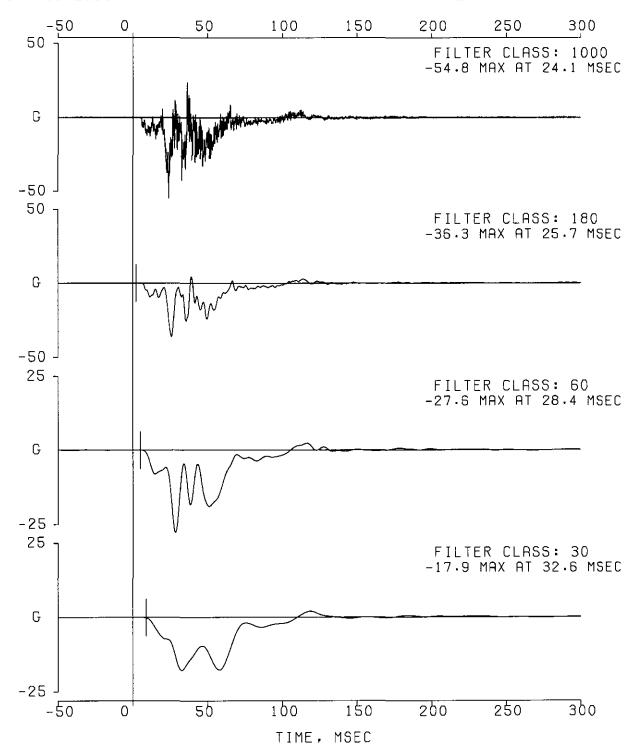
CHANNEL 001 LT RL FWD RR CTRL ARM X ETBB159

FILTER TYPE: OBDAS-III RESPONSE CORRECTION. CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BG

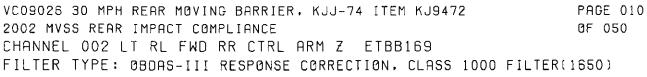
JAN 30,2001

ERRATA

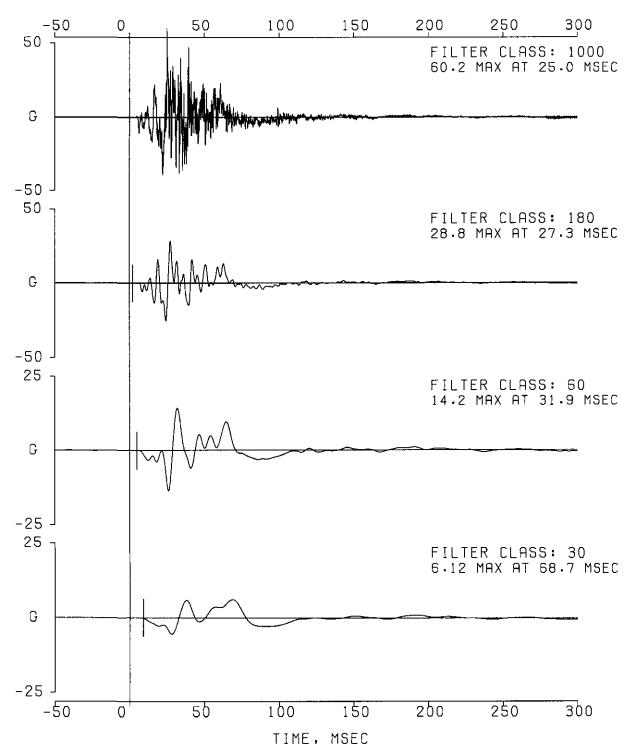


FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA 1 -50 50 100 150 200 250 300 100.0 150.0 MAX MPH -30.4 MAX IN 0.0 80.0 -0.1 MS 100.0 AT 0.2 MS AT -233.7 MIN MPH -47.0 MIN IN ΑT 101.5 MS AT 299.8 MS 60.0 50.0 0.0 40.0 Z 20.0 -50.0 -100.001-COMPUTED 0.0 -20.0 -150.0-200.0 -40.0 -60.0 -250.05b 150 200 250 300 100 TIME, MSEC



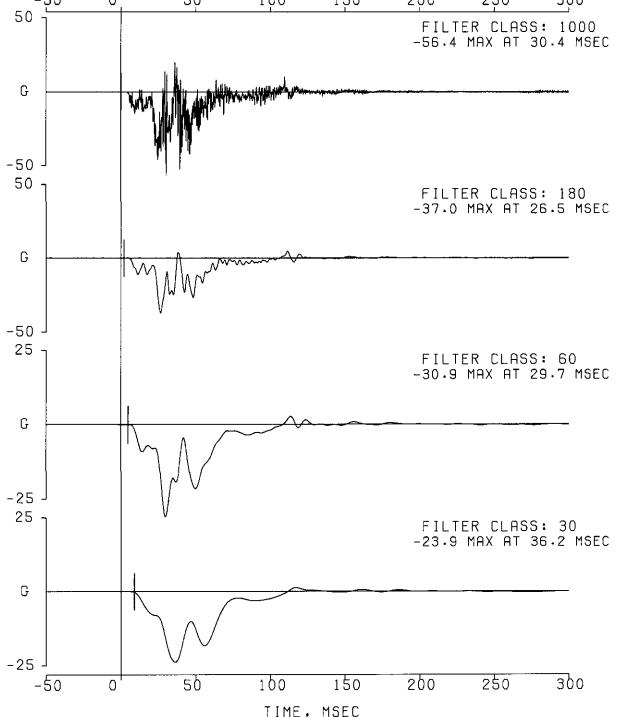




CHANNEL 003 RT RL FWD RR CTRL ARM X P16367

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)

DATA SET 01/29/01BG IMPACT ANALYSIS DEPT. 5320 JAN 30,2001 ERRATA 1 -50 50 100 150 200 250 300



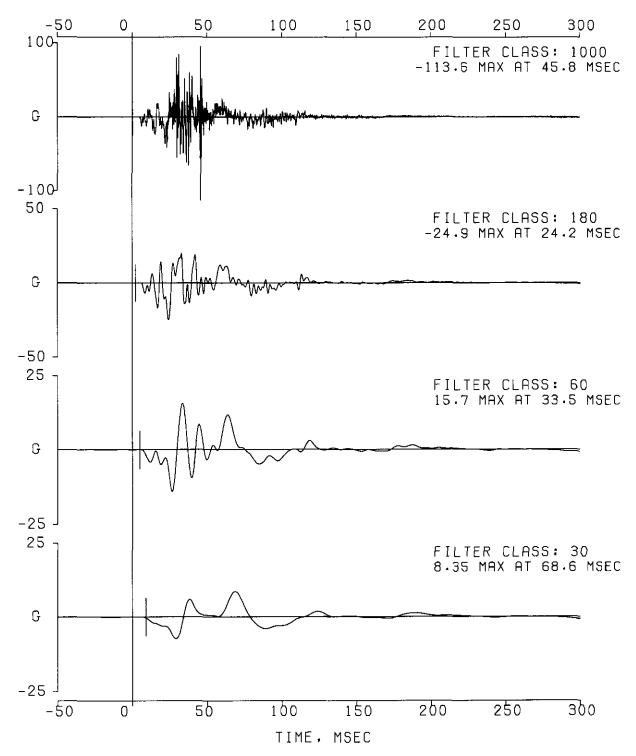
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA 1 ~50 50 100 150 200 250 300 100.0 150.0 MAX MPH -30.4 MAX IN 0.0 80.0 AT 4.1 MS AT -0.1 MS 100.0 -245.1 MIN MPH -49.2 MIN IN 104.7 MS AT 299.8 MS ΑT 50.0 60.0 0.0 40.0 Z 20.0 -50.0 -100.001 COMPUTED 0 - 0 -20.0 -150.0 -200.0 -40.0 -250 -60.0 200 250 5δ 150 300 0 100 TIME, MSEC

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG

JRN 30,2001

ERRATA 1

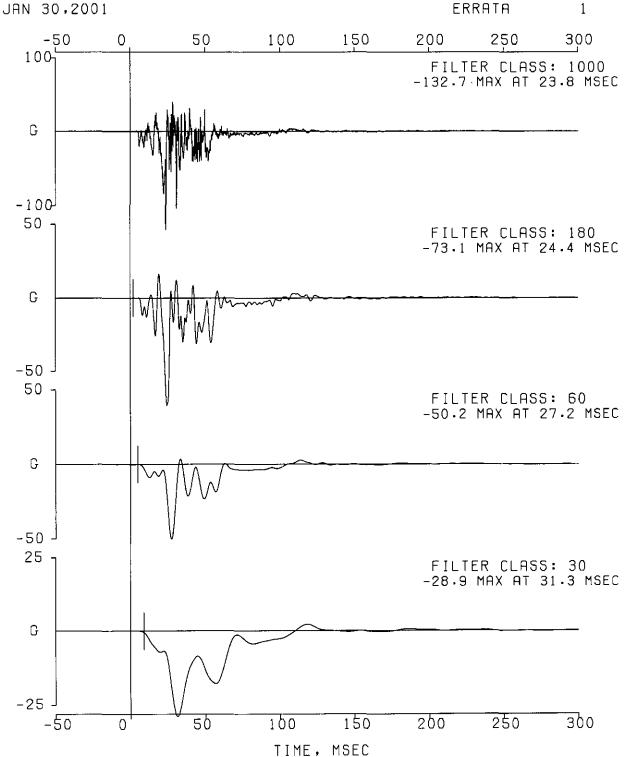


CHANNEL 005 LT RAIL MID TANK

X J15042

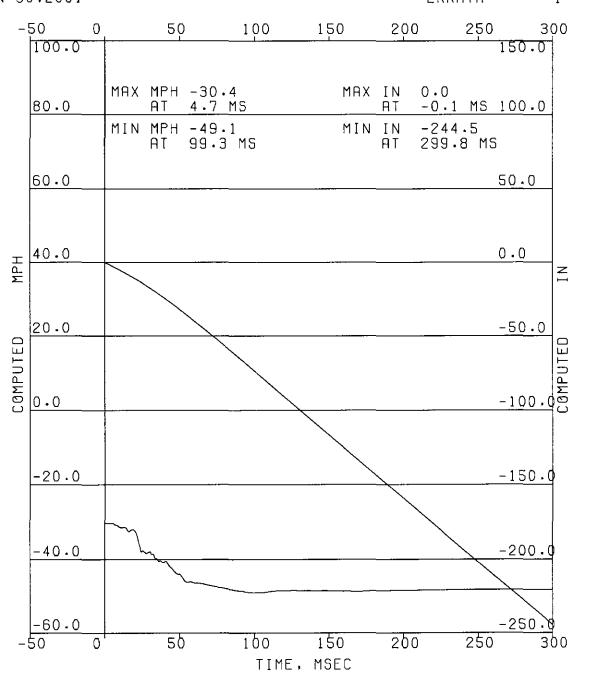
FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BG



FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) FILTER CLASS: 1000

IMPACT ANALYSIS DEPT. 5320 JAN 30,2001 DATA SET 01/29/01BG ERRATA 1



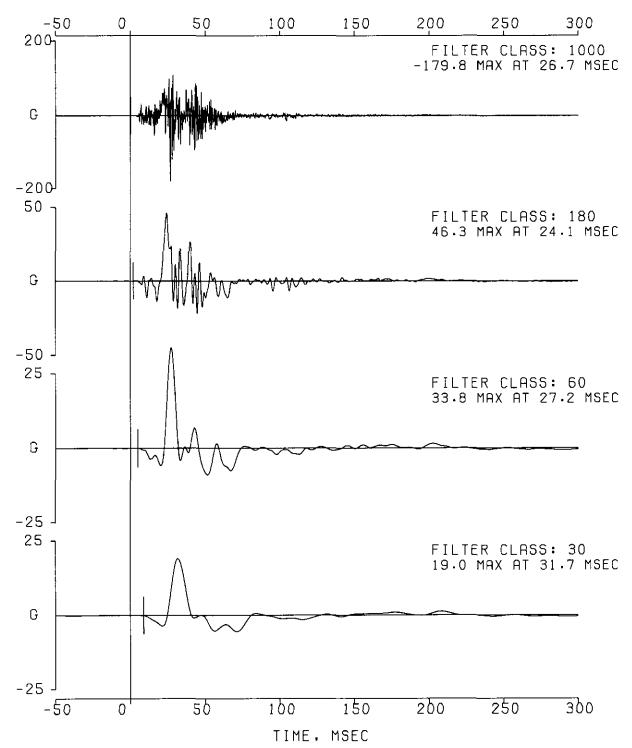
COMPUTED MPH

CHANNEL 006 LT RAIL MID TANK Z J18847

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BG

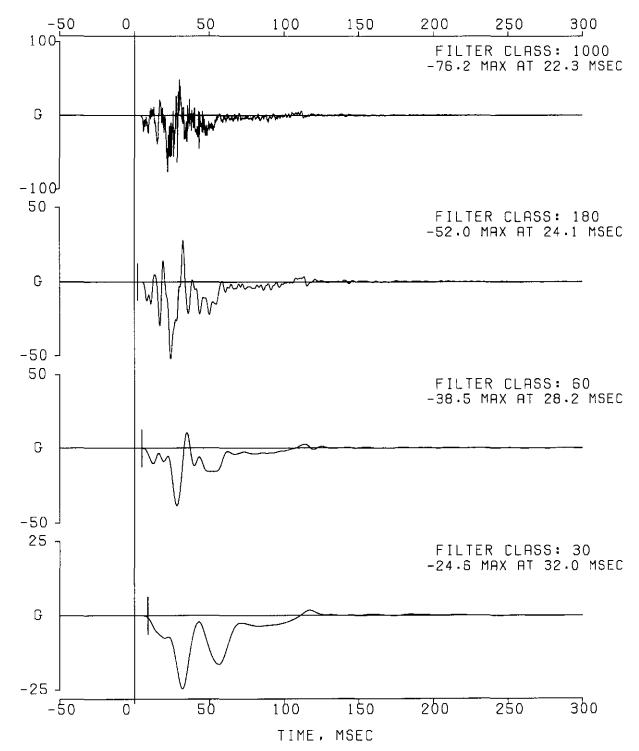
JAN 30,2001



CHANNEL 007 RT RAIL MID TANK

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG

JAN 30,2001



IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA 1 -50 50 100 150 200 250 300 100.0 150.0 MAX MPH -30.4 MAX IN 0.0 80.0 -0.1 MS 100.0 AT -0.1 MS AT MIN MPH -46.1 MIN IN -230.0 104.5 MS AT 299.8 MS AT 60.0 50.0 0.0 40.0 MPH Z 20.0 -50.0 -100.001-COMPUTED COMPUTED 0 - 0 -150.0-20.0 -200.0 -40.0 ~250.0 60.0 250

150

TIME, MSEC

100

200

COMPUTED MPH COMPUTED IN

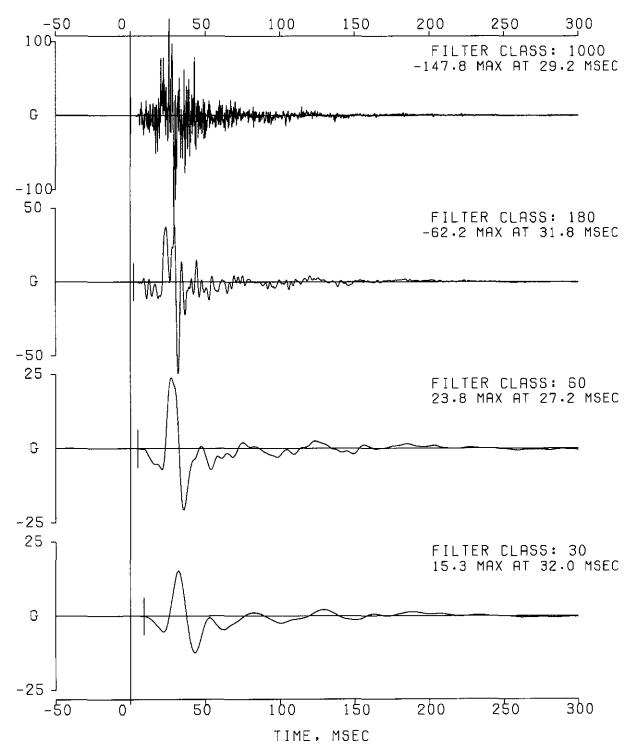
50

VCO9026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472

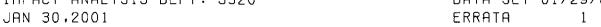
2002 MVSS REAR IMPACT COMPLIANCE CHANNEL 008 RT RAIL MID TANK

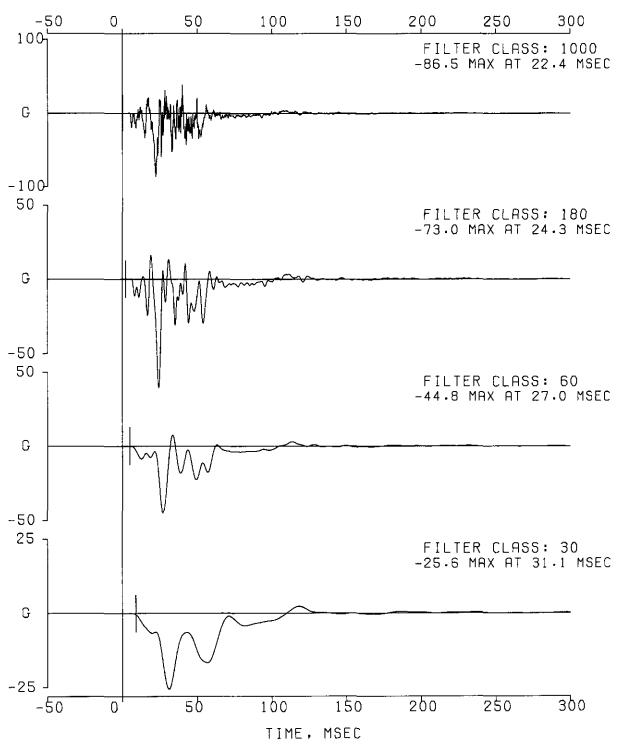
Z P11527

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001



FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG



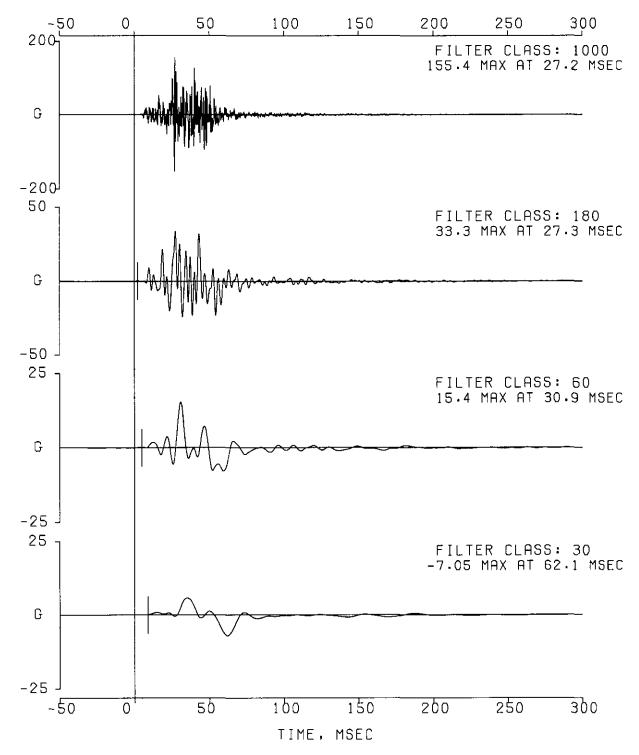


IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA 1 -50 200 50 100 150 250 300 100.0 150.0 MAX MPH -30.4 MAX IN 0.0 80.0 AT 4.9 MS ΑT -0.1 MS 100.0 MIN MPH -46.9 MIN IN -233.4 299.8 MS AT 99.3 MS AΤ 60.0 50.0 0.0 40.0 MPH Z 20.0 -50.0 -100.00 COMPUTED COMPUTED 0.0 -20.0 -150.0 -20<u>0.0</u> -40.0 -60.0 -250.0 5b 150 200 250 300 100 -50 TIME, MSEC

CHANNEL 010 FUEL TANK RL PASS-THRUY J25340

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG

JAN 30,2001

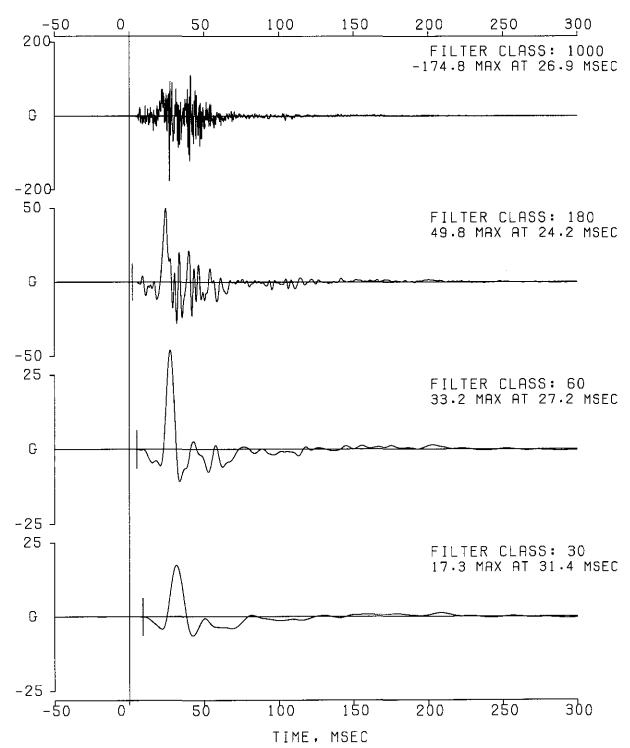


CHANNEL 011 FUEL TANK RL PASS-THRUZ AHTJ7

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BG

JAN 30,2001



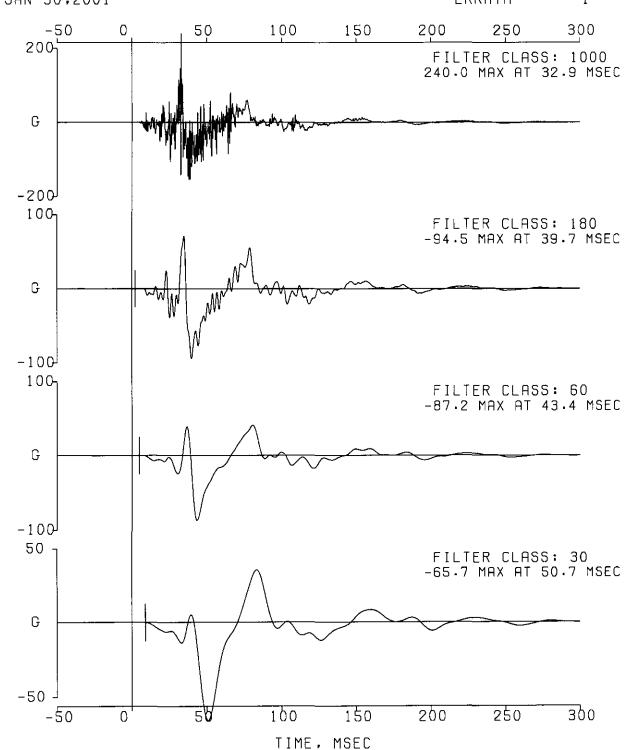
CHANNEL 012 FUELTANK BTM CTR

X J17361

FILTER TYPE: 0BDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BG
JAN 30,2001

ERRATA 1



IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA 1 250 -50 200 50 100 150 300 100.0 150.0 MAX MPH -30.4 MAX IN 0.0 80.0 AT 3.7 MS AT -0.1 MS 100.0 MIN MPH -53.8 MIN IN -238.6 299.8 MS AT 61.7 MS ΑT 50.0 60.0 0.0 40.0 MPH Z 20.0 -50.0 -100.03 COMPUTED 0.0 -150.0-20.0 -200.d -40.0 -250.0 -60.0 0 50 100 150 200 250 300

TIME, MSEC

COMPUTED MPH

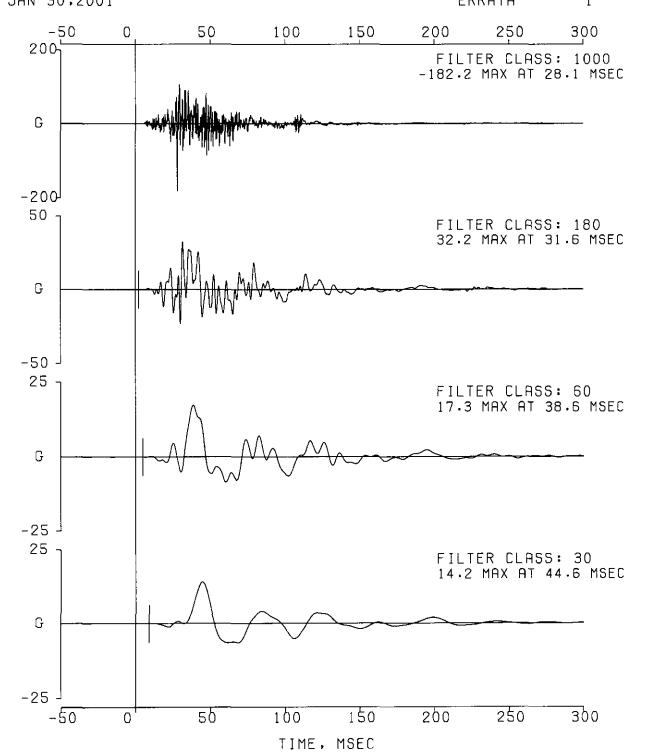
CHANNEL 013 FUELTANK BTM CTR

Y AHT27

FILTER TYPE: 0BDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT, 5320

DATA SET 01/29/01BG
JAN 30,2001

ERRATA 1

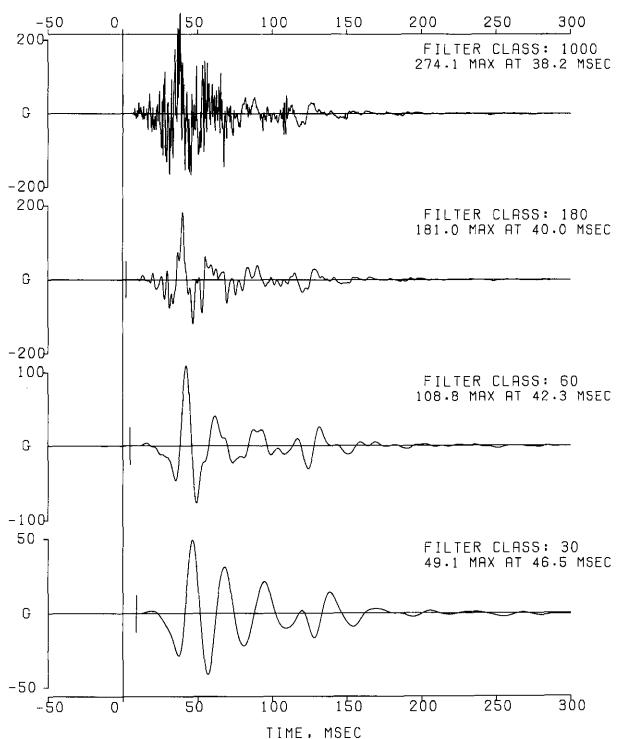


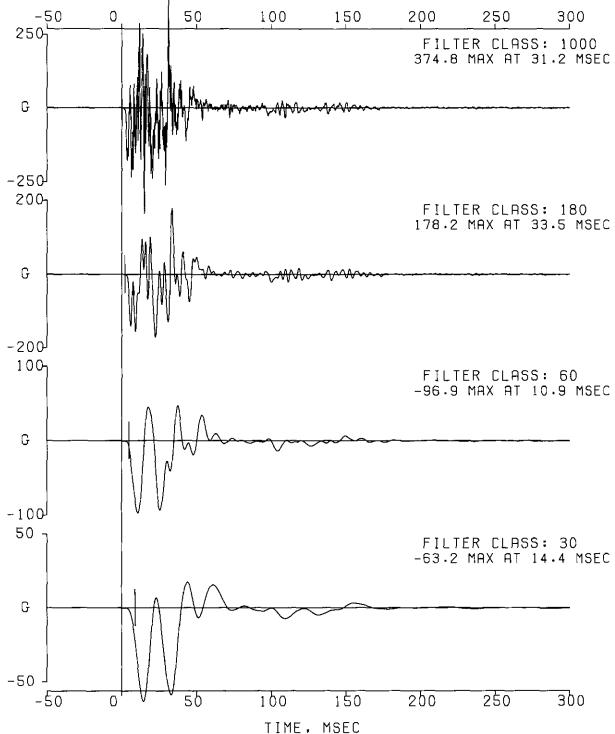
2002 MVSS REAR IMPACT COMPLIANCE CHANNEL 014 FUELTANK BTM CTR

Z 990HB

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG ERRATA 1

JAN 30,2001





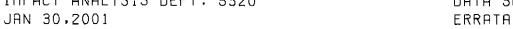
IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BG JAN 30,2001 ERRATA -50 100 200 50 150 250 300 100.0 100.0 MAX MPH -30.4 MAX IN 0.0 80.0 AT -0.1 MS ΑT -0.1 MS 50.0 MIN MPH -57.6 MIN IN -266.2 AT 30.3 MS 299.8 MS ΑT 0.0 60.0 -50.0 40.0 MPH N 20.0 -100 - 0-150.03 COMPUTED COMPUTED 0.0 -200.0 -20.0 50. -40.0 <u>-</u>300 · d -60.0 0 50 100 150 200 250 300

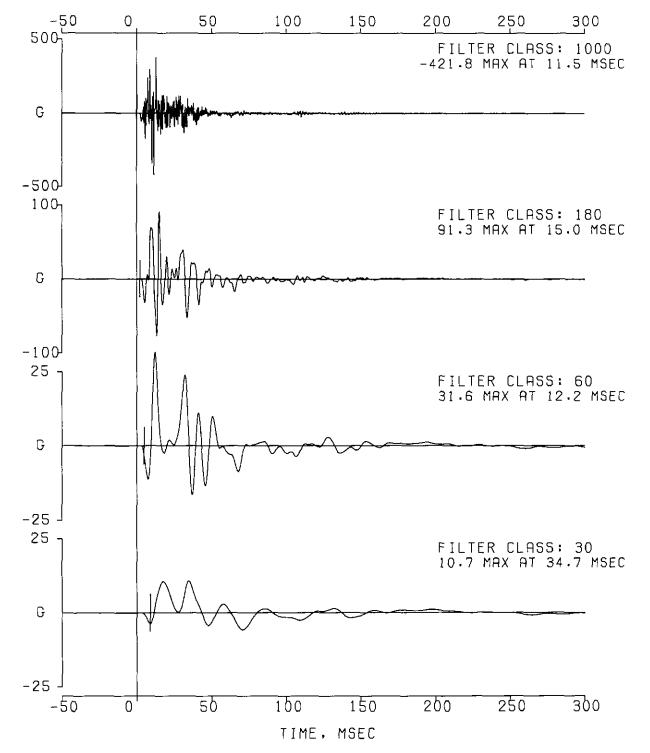
TIME, MSEC

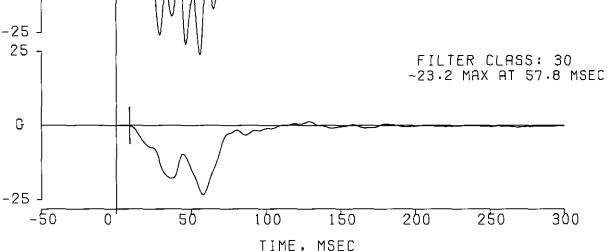
PAGE 030 0F 050

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BG 1







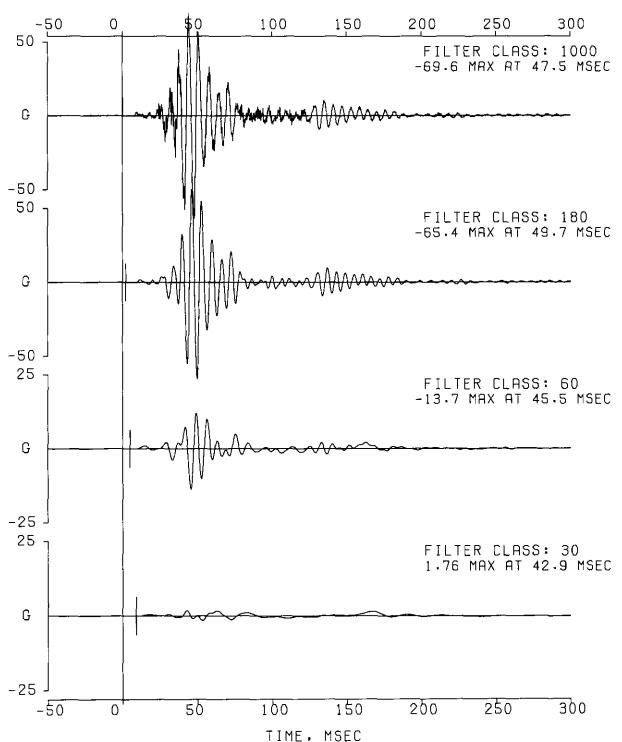
IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BH JAN 30,2001 ERRATA 1 -50 50 100 150 200 250 300 150.0 100.0 MAX MPH -30.4 MAX IN 0.0 80.0 AT -0.1 MS AT -0.1 MS 100.0 MIN MPH -49.4 MIN IN -244.6 299.8 MS 299.8 MS AT ЯT 50.0 60.0 0.0 40.0 Z 20.0 -50.0 ED COMPUTED -100 · 001 0.0 -20.0 -150.0 -200.d -40.0 -250. -60.0 250 150 200 5b 100

TIME, MSEC

2002 MVSS REAR IMPACT COMPLIANCE CHANNEL 018 ORC TOP FT LT

Y J15463

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BH JAN 30,2001

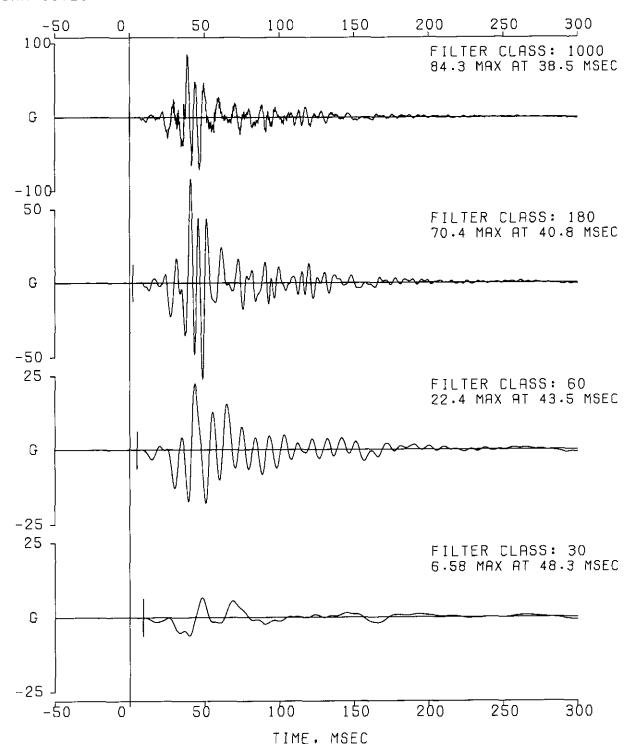


VC09026 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ9472 2002 MVSS REAR IMPACT COMPLIANCE

CHANNEL 019 ORC TOP FT LT

Z P13322

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) DATA SET 01/29/01BH IMPACT ANALYSIS DEPT. 5320 JAN 30,2001 ì



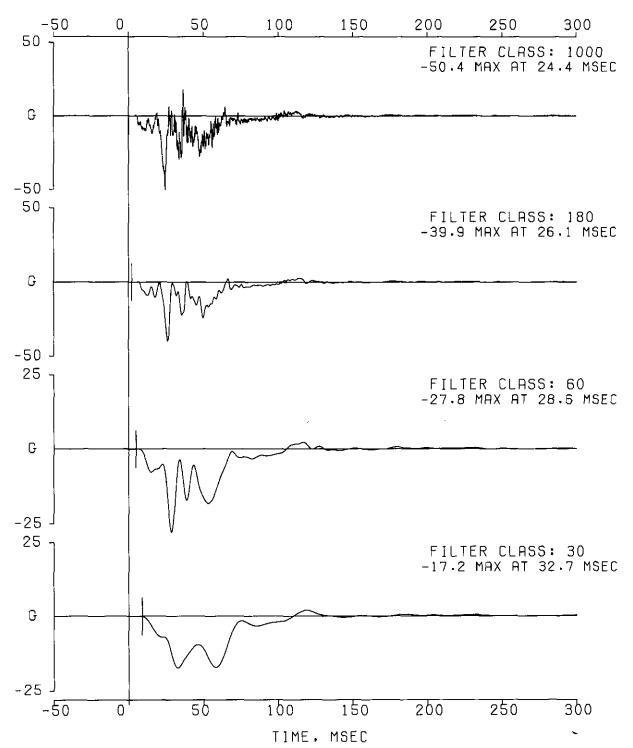
CHANNEL 020 LEFT FRONT SILL

X ETBBB21

FILTER TYPE: 0BDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

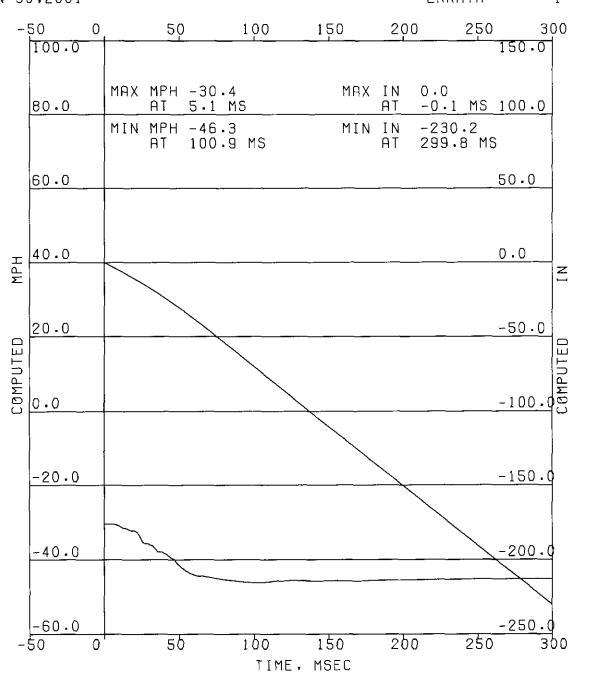
DATA SET 01/29/01BH

JAN 30,2001



IMPACT ANALYSIS DEPT, 5320 JAN 30,2001

DATA SET 01/29/018H ERRATA 1



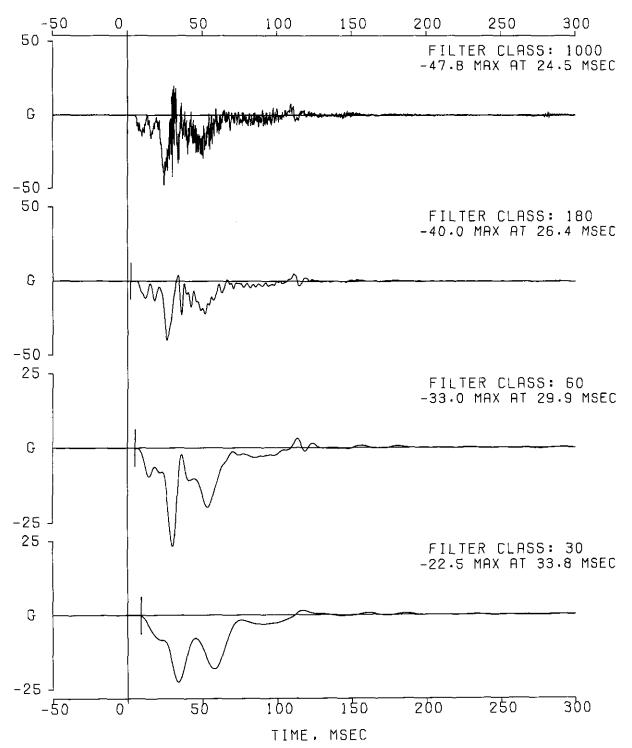
COMPUTED MPH

TIME, MSEC

CHANNEL 022 RIGHT FRONT SILL X J17456

FILTER TYPE: OBDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650) IMPACT ANALYSIS DEPT. 5320 DATA SET 01/29/01BH 1

JAN 30,2001 ERRATA



IMPACT ANALYSIS DEPT, 5320 DATA SET 01/29/01BH JAN 30,2001 ERRATA 1 -50 50 100 150 200 250 300 100.0 150.0 MAX MPH -30.4 MAX IN 0.0 80.0 AT -0.1 MS AT -0.1 MS 100.0 MIN MPH -47.7 MIN IN -237.8 AT 104.7 MS 299.8 MS AT 60.0 50.0 0.0 40.0 МРН z 20.0 -50.0 -100.001 C0MPUTED

COMPUTED MPH COMPUTED IN

COMPUTED

0.0

-20.0

-40.0

-60.0

0

50

100

150

TIME, MSEC

200

-150.0

-200.0

-250.0

300

250

~25

-50

0

5b

100

150

TIME, MSEC

250

200

300

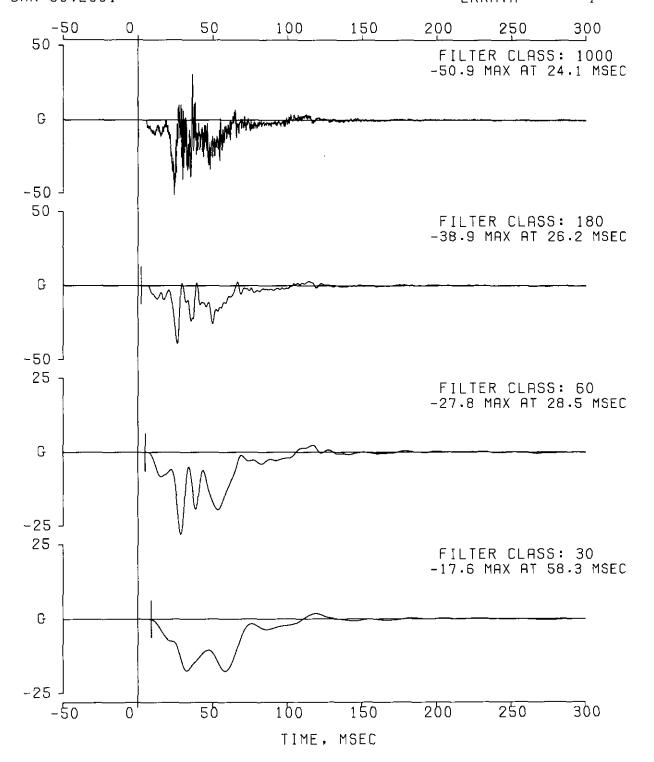
CHANNEL 024 LEFT REAR SILL

X ETBBB99

FILTER TYPE: 08DAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BH
JAN 30,2001

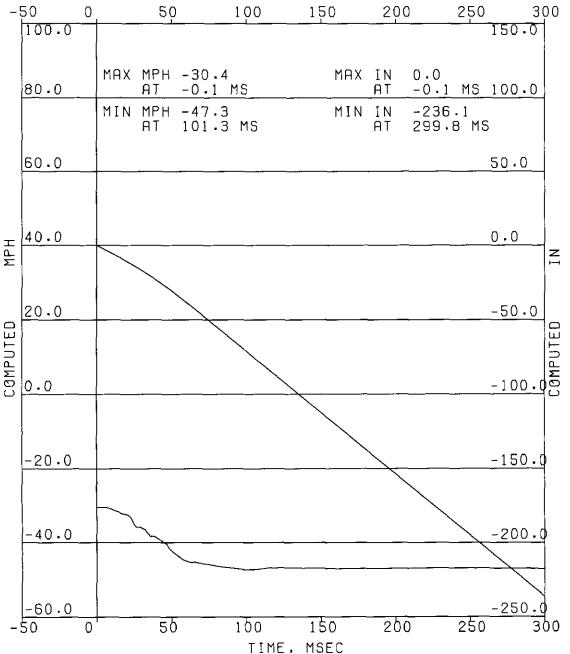
ERRATA 1



IMPACT ANALYSIS DEPT. 5320

JAN 30.2001

-50 0 50 100 150 200 250 300

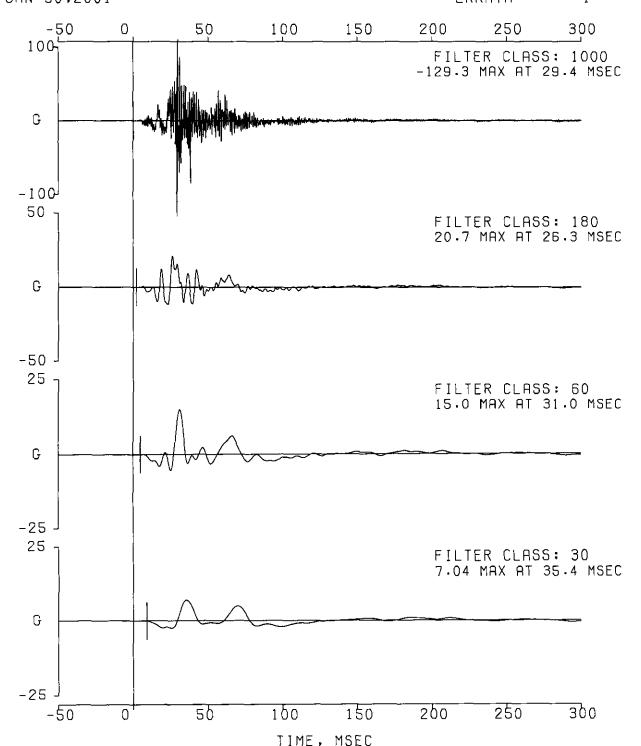


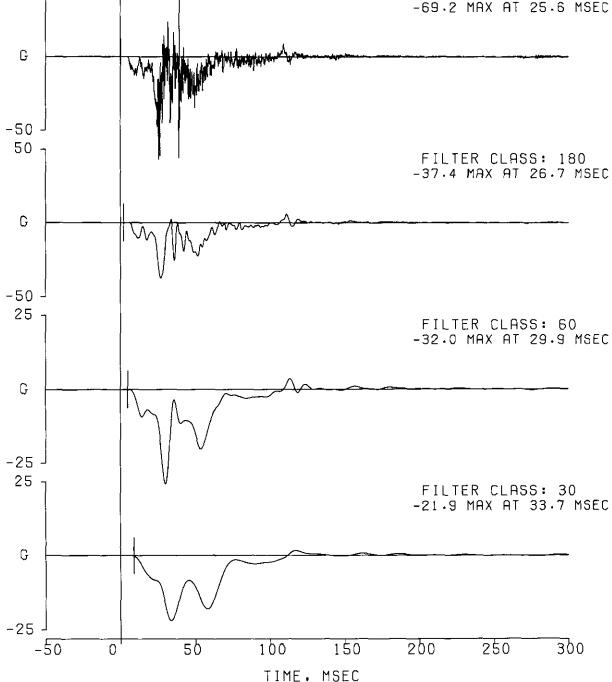
COMPUTED MPH

CHANNEL 025 LEFT REAR SILL

Z ETBBB92

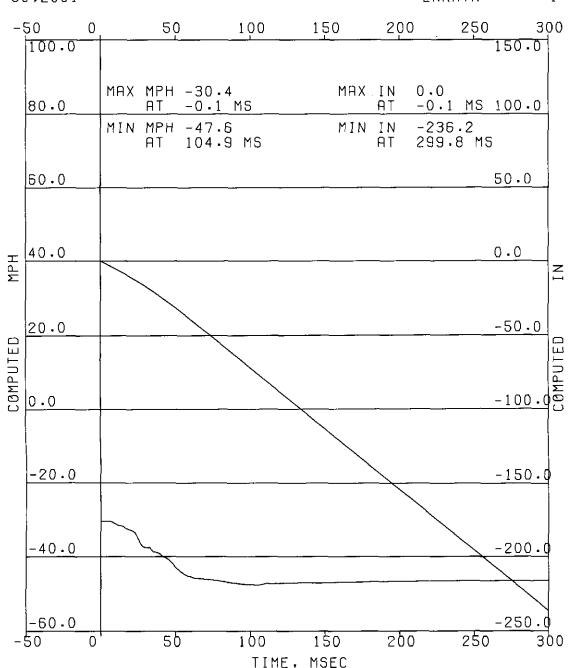
FILTER TYPE: 0BDAS-III RESPONSE CORRECTION, CLASS 1000 FILTER(1650)
IMPACT ANALYSIS DEPT. 5320
DATA SET 01/29/01BH
JAN 30,2001
ERRATA 1





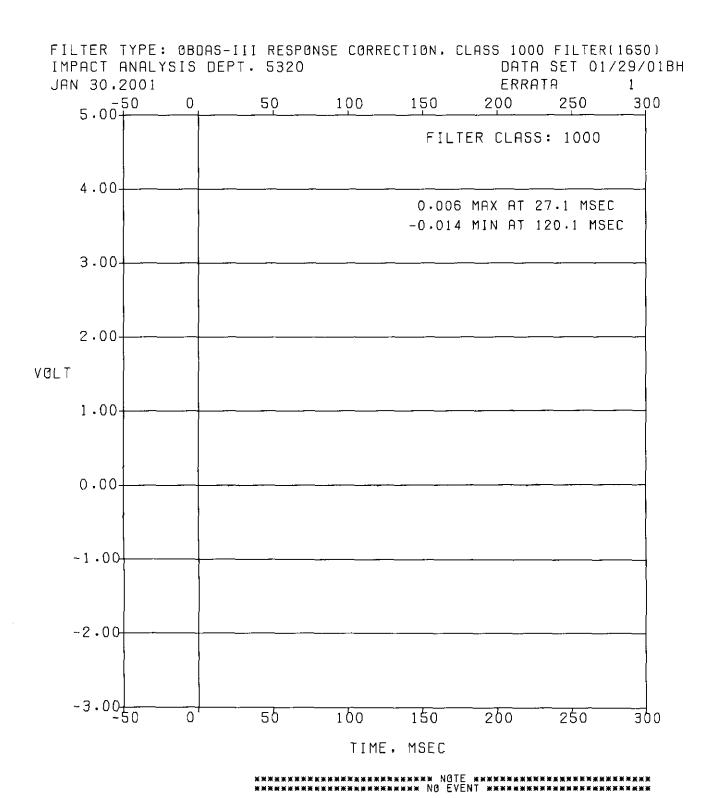
IMPACT ANALYSIS DEPT. 5320 JAN 30,2001

DATA SET 01/29/01BH ERRATA 1



CHANNEL 028 DRIVER SQUIB EVENT

ΕE



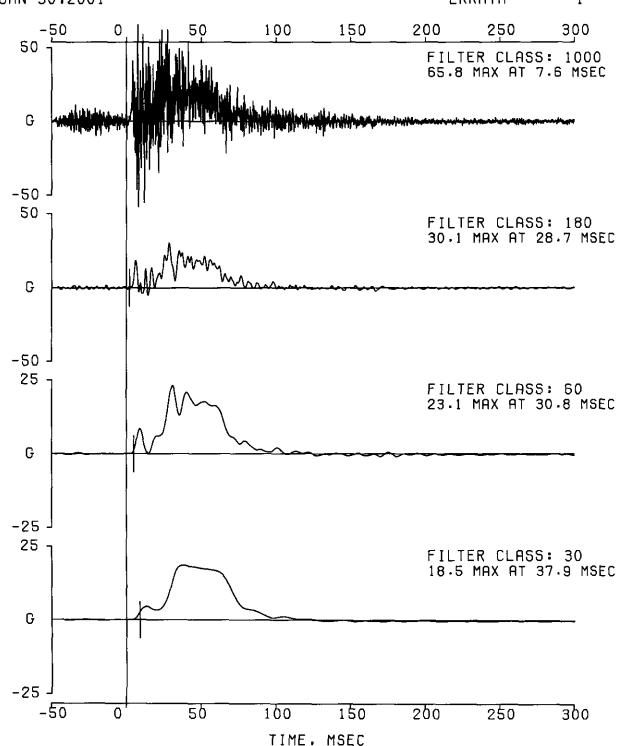
CHANNEL 033 LT RAIL MBAR MID

X 14414

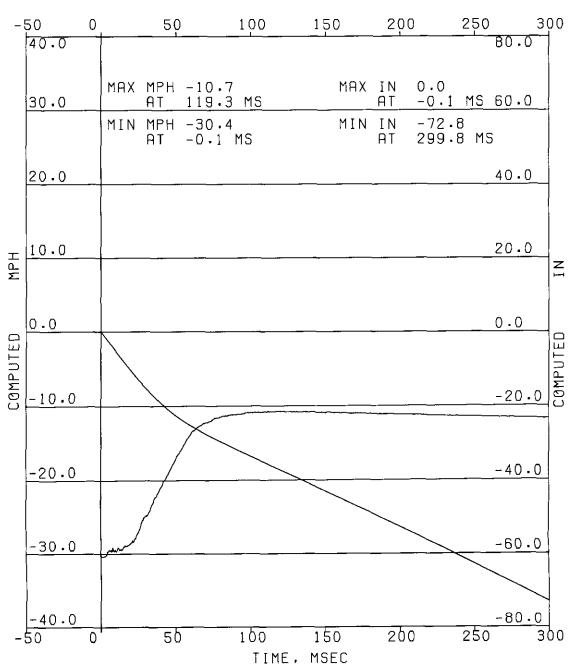
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IMPACT ANALYSIS DEPT. 5320

DATA SET 01/29/01BI
JAN 30.2001

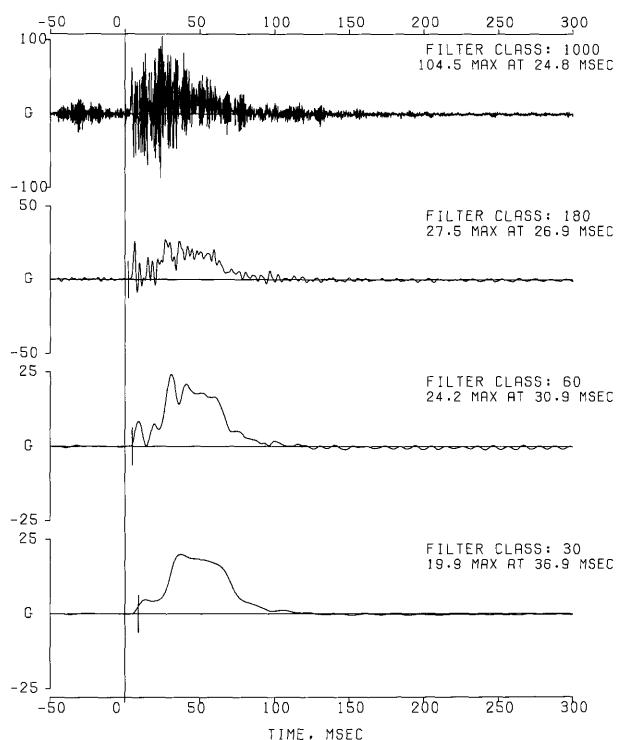
ERRATA 1



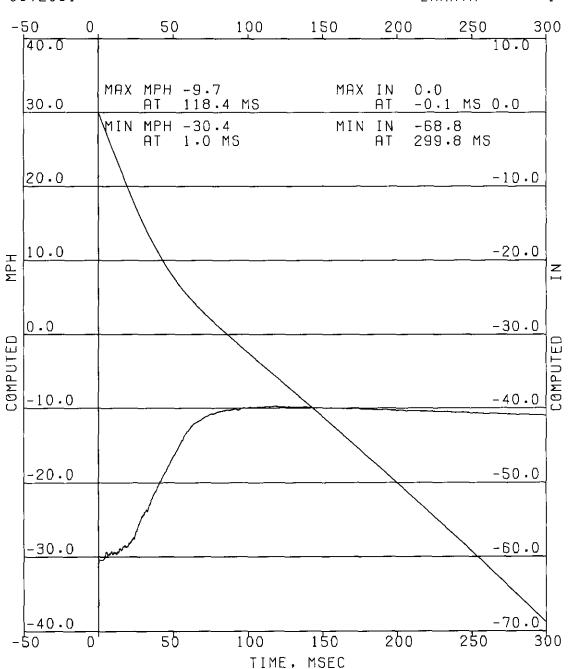
IMPACT ANALYSIS DEPT. 5320 JAN 30.2001 DATA SET 01/29/01BI ERRATA 1







IMPACT ANALYSIS DEPT. 5320 JAN 30,2001 DATA SET 01/29/01BI ERRATA 1



COMPUTED MPH

DATE 03/20/03 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 14:37:48. EDP TEST LETTER DEPT 5320

VC10546 ITEM KJ4W100041

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041

04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03

TEST SITE MORTON-AUTOLIV

TEST PURPOSE PRIMARY, 2004 USA 301-REAR COMPLIANCE

TARGET SPEED; 48.3 KPH IMPACT TYPE

> DAMAGE LOCATION; REAR (FULL) BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ

> CAR LINE; J ENGINE; BODY; 74

3.7 LITER

ENGINE NOTE; V6
TRANSMISSION; 5 SPEED MANUAL

TRANS. NOTE;

VIN AS TESTED; 1J8GL38K74W VIN AS BUILT; 1J8GL38K74W MOD. MOD.

48.8 KPH BY ELECTRONIC TRAP TIMER 1 TEST SPEED

TEST WEIGHT (KG) 2245.3 TOTAL, 1170.7 FRONT, 1074.6 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-TA1

RESTRAINT- 3-PT UNIBELT ONLY

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-TA2

RESTRAINT- 3-PT UNIBELT ONLY

DATE 03/20/03 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 14:37:48. EDP TEST LETTER DEPT 5320 EDP TEST LETTER

VC10546 ITEM KJ4W100041

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041

04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03

TEST SITE MORTON-AUTOLIV

BUILD CONDITION

ORIGINAL BUILD: 2004 S1 BUILT LIBERTY RENEGADE --FLEET #: C4KJJ-0212

MODIFICATIONS: - REMOVED ONE OF THREE DOOR HINGE BOLTS FROM ALL FOUR PASSENGER DOORS

- DAB ADI9.2G VO 230KPA INFLATOR, 28" DIAMETER COATED BAG, 2X27.5MM VENTS, I TEAR SEAM, 10" TETHER, STAR FOLD

- PAB PPI32S 50/50 LS2 INFLATOR - CYLINDRICAL, 160 LITRES, 2X50 MM VENTS, NO TETHER, UNCOATED 585 DTEX MATERIAL, 50/50 FOLD

- INSTALLED PASSENGER AIRBAG COVER WITH H-PATTERN TEAR SEAM

- INSTALLED DRIVER SEATBELT WITH MONOTWILL RUKAFLEX WEBBING

- INSTALLED PASSENGER SEAT BELT WITH MONOTWILL RUKAFLEX WEBBING, 9.5MM DIAMETER TORSION BAR, PRETENSIONER, AND BUCKLE TENSION SENSOR

- DID NOT INSTALL PASSENGER SEAT BELT WIRING HARNESS TO PRETENSIONER

- DID NOT FLASH ORC WITH CALIBRATION 5

TARGET WEIGHT (KG) 2247 TOTAL, 1173 FRONT, 1074 REAR INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 68.1 LITERS STODDARD SOLVENT

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

EDP TECHNICIAN S. MARCHENIA

No. of Pages 23

CC

R. BORTOLIN M. STEBELTON 514-17-39 422-05-01 VEHICLE CRASH ENGINEERING VEHICLE CRASH TEST LETTER

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041 04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03

TEST SITE MORTON-AUTOLIV

TEST PURPOSE PRIMARY, 2004 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.3 KPH

DAMAGE LOCATION; REAR (FULL)
BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ

CAR LINE; J BODY; 74

ENGINE; 3.7 LITER

ENGINE NOTE; V6

TRANSMISSION; 5 SPEED MANUAL

TRANS. NOTE;

VIN AS TESTED; 1J8GL38K74W MOD. VIN AS BUILT; 1J8GL38K74W MOD.

TEST SPEED 48.8 KPH BY ELECTRONIC TRAP TIMER 1

TEST WEIGHT (KG) 2245.3 TOTAL, 1170.7 FRONT, 1074.6 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-TA1

RESTRAINT- 3-PT UNIBELT ONLY

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-TA2

RESTRAINT- 3-PT UNIBELT ONLY

VEHICLE CRASH ENGINEERING VEHICLE CRASH TEST LETTER

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041 04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03

TEST SITE MORTON-AUTOLIV

BUILD CONDITION

ORIGINAL BUILD: 2004 S1 BUILT LIBERTY RENEGADE -- FLEET #: C4KJJ-0212

MODIFICATIONS: - REMOVED ONE OF THREE DOOR HINGE BOLTS FROM ALL FOUR PASSENGER DOORS

- DAB ADI9.2G VO 230KPA INFLATOR, 28" DIAMETER COATED BAG, 2X27.5MM VENTS, I TEAR SEAM, 10" TETHER, STAR FOLD
- PAB PPI32S 50/50 LS2 INFLATOR CYLINDRICAL, 160 LITRES, 2X50 MM VENTS, NO TETHER, UNCOATED 585 DTEX MATERIAL, 50/50 FOLD
- INSTALLED PASSENGER AIRBAG COVER WITH H-PATTERN TEAR SEAM
- INSTALLED DRIVER SEATBELT WITH MONOTWILL RUKAFLEX WEBBING
- INSTALLED PASSENGER SEAT BELT WITH MONOTWILL RUKAFLEX WEBBING, 9.5MM DIAMETER TORSION BAR, PRETENSIONER, AND BUCKLE TENSION SENSOR DID NOT INSTALL PASSENGER SEAT BELT WIRING
- HARNESS TO PRETENSIONER
 DID NOT FLASH ORC WITH CALIBRATION 5

TARGET WEIGHT (KG) 2247 TOTAL, 1173 FRONT, 1074 REAR INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 68.1 LITERS STODDARD SOLVENT

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

REPORT CODES A = TRANSDUCER DATA B = ALL FILM DATA

DISTRIBUTION M. STEBELTON 422-05-01 (AB)
R. BORTOLIN 514-17-39 (AB)
DATE 03/20/03 TIME 09:09:39.

Test Request for VC10546/ JPE Item No.: KJ4W100041

Doc. Rev. #: 9

Key People:

*Test Requester:

Roger

Bortolin/JTE/DC

C/DCX

Platform: JPE

Phone: 733-1083

Others to be copied on correspondence related to

this test: Eric G

Willis/JTE/DCC/DCX Suzanne M

Marsh/JTE/DCC/DCX

TEST STATUS: TEST COMPLETE

Test Completed on 03/10/2003

TEST SITE: **Morton-AutoLiv** SLOT #: 1st Test of the Day

SCHEDULED DATE: 03/10/2003

LAST MODIFIED / BY: 03/20/2003 08:26:19 AM by: Brian D

Grenke

REQUESTOR'S NOTE PAD:

INVOICE INFORMATION (Service Center Purpose)

LOCATION: 1275 **DEPARTMENT:** 1060

COMMIT NUMBER: DO NUMBER:

CPG Personnel Assigned to This Test:

Test Engineer(s)

Test Engineer Assigned:

Test Engineer Check Completed By:

Test Engineer Test Day:

Film Analysis Liaison: Andre S Dsouza - 722-1916 Data Acquisition Engineer(s)

Data Acquisition Test

Engineer:

Data Acquisition Check

Completed By:

Data Acquisition Write-Up Michael D Rhew - 836-5674

Engineer:

INSTRUMENTATION on

SECTION REVIEW COMPLETED BY:

Test Requested:

MVSS 301 30MPH Flat Rear Impact

Procedure (Select One): SLTI3500

Target Speed: 48.3 KPH (30.0 MPH)

mph->kph

*Best Estimate of Ship Date: 03/04/2003

Estimated Schedule Date:03/10/2003 Estimated Vehicle Buildup (Days):

Regulatory Purpose(s):

PRIMARY, 2004 USA 301-REAR COMPLIANCE

Specific Test Date Required?: *When this test is complete, please send test property to: PROC	
*Stage of Development: Compliance Development	Priority (optional): ■ A ○ B ○ C

Occupants For This Test:

1L - (Standard) H2-50TH MALE BALLAST DUMMY, 0 - CH, RESTRAINT- 3-PT UNIBELT ONLY, AD-TA1 1R - (Standard) H2-50TH MALE BALLAST DUMMY, 0 - CH, RESTRAINT- 3-PT UNIBELT ONLY, AD-TA2

FILM ANALYSIS AND PHOTOGRAPHIC VIEWS:

Film Analysis Ordered:

Targets and Views for 'If Requested' FA Only

Film Analysis "If Requested": VELOCITY

Test Site Constraints based on Film Analysis: Advanced Film Analysis Req'd: CPG site recommended

Film Analysis Requested
- Custom:
No Custom

Photographic Views Required:

- >>VELOCITY HG2000
- >>CATWALK VEHICLE REAR MDB INTERACTION
- >>RIGHT OVERALL
- >>PIT FUEL FILLER TUBE
- >>PIT FUEL TANK: view to show entire tank plus axle and rear cross member
- >>LEFT OVERALL

IMAGING PRODUCT ORDER:

VCE PROVIDES ONE ORIGINAL AND ONE PRINT 16 MM FILM REEL WITH EACH TEST.

Still Photos Required:

ANDARD VIEWS FOR: REA			ADDITIONAL STILL PHOTOS:
TOP REAR	PRE	POST	Pre-Test Still Photo: top rear Pre-Test Still Photo: bottom rear
BOTTOM REAR FUEL FILL TUBE FILLER KEYWAY ACCELS (# OF SHOTS)	Pre-Test Still Photo: fuel filler tube Pre-Test Still Photo: filler keyway Post-Test Still Photo: top rear		
		Post-Test Still Photo: bottom rear Post-Test Still Photo: fuel filler tube	
			Post-Test Still Photo: filler keyway
			Post-Test Still Photo: filler keyway

FILM ANALYSIS REPORT UPDATE:

^{*****} All Required fields (*) must be entered up to this point for test specification to be accurate

10/27/2003 01:47:05 PMVCE Test Request System - Alternative Site Active Tests \ - BOOKKEEPING CY2003Page: 3

(This Section Indicates the Status of Film Analysis Completion)

FA NAME PUBLISHED REISSUED CANCELLED COMMENTS



Vehicle Information:

Program: 04 KJ Core Item No.: KJ4W100041 NOTE: the Core Item No. cannot exceed 10 characters in length. Restrike No.: R Right-Hand Drive Competitive Car	Vehicle Readiness to Ship: This is a minimally modified vehicle, no checklist is required
CAR LINE: J BODY: 74 Number of Doors in this Vehicle: 4 Vehicle Build Level: S1	
Other Vehicle Configuration Flag (optional word or short phrase to use in further sorting of platform reports):	
VIN(as built): 1J8GL38K74W VIN(as tested): 1J8GL38K74W	
ENGINE: 3.7 Liters ENGINE NOTE: V6 TRANSMISSION: 5 SPEED MANUAL	Vehicle Logistics: Note: Vehicle must be fully inspected prior to shipment to test site. ☐ Yes
TRANS. NOTE: DRIVE: 4 X 4	Start Date: End Date: EMD Work Oder: Wet Fuels Work Order:
GVW (opt): kg	Shipped to Test Site: Rec'd at Test Site: 09/12/2003 Returned from Test Site: When I expect vehicle to be off hold:



Instrumentation Build Info:

General Instrumentation Requirements:					
Modules Used:	Pyrotechnics Used:				
Other Notes:	Deployment Method:				

FUEL PUMP RUNNING DURING TEST	No Deployment
	Deployment Notes:

Vehicle Channel Entry:	List of Dummy Channel Titles Used on this Test:
Create New Instrumentation Sheet Attach Instrumentation Sheet Here:	BALLAST DUMMY- NO CHANNELS-1L BALLAST DUMMY- NO CHANNELS-1R
DO NOT ATTACH MORE THAN ONE FILE TO THIS FIELD. Attach New or Replacement Sheet	
 Protected section of instrumentation sheet indicates minimum instrumentation requirements for the test selected and may only be modified by your Data Acquisition Engineer. Please indicate all changes made to the spreadsheet after Test Request submission at the base of the spreadsheet. 	

Total Occupant Channels: 0

Total Vehicle Channels: 15

Estimated Vehicle Buildup Time (days):

TOTAL ON-BOARD CHANNELS FOR THIS
TEST: 15

Total Data Acq. Boxes Required: 1
Channels in Last Data Acq. Box: 15 out of 32

Build Condition as Reported in Test Letter:

Paragraph summarizing the original build condition of this vehicle

(This will appear in the Test Letter as shown, please describe any unique features this vehicle was originally built with. If this is a mule vehicle, please describe the original vehicle model and model year):

ORIGINAL BUILD:

2004 S1 BUILT LIBERTY RENEGADE -- FLEET #: C4KJJ-0212

Paragraph summarizing the modifications made to the original build prior to test

(This will appear in the Test Letter as shown, please describe any modifications affecting test performance):

MODIFICATIONS:

- REMOVED ONE OF THREE DOOR HINGE BOLTS FROM ALL FOUR PASSENGER DOORS
- DAB ADI9.2G V0 230KPA INFLATOR, 28" DIAMETER COATED BAG, 2X27.5MM VENTS, I TEAR SEAM, 10" TETHER, STAR FOLD
- PAB PPI32S 50/50 LS2 INFLATOR CYLINDRICAL, 160 LITRES, 2X50 MM VENTS, NO TETHER, UNCOATED 585 DTEX MATERIAL, 50/50 FOLD
- INSTALLED PASSENGER AIRBAG COVER WITH
- H-PATTERN TEAR SEAM
- INSTALLED DRIVER SEATBELT WITH MONOTWILL RUKAFLEX WEBBING
- INSTALLED PASSENGER SEAT BELT WITH MONOTWILL RUKAFLEX WEBBING, 9.5MM DIAMETER TORSION BAR, PRETENSIONER, AND BUCKLE TENSION SENSOR

- DID NOT INSTALL PASSENGER SEAT BELT WIRING HARNESS TO PRETENSIONER
- DID NOT FLASH ORC WITH CALIBRATION 5



Test Weight:

Target Test Weight Requested

Please note: This is an approximate value and includes vehicle, ballast, fuel, ATDs, and instrumentation.

1 POUND WEIGHT = 0.4536 KILOGRAMS (KG)

Total Target Test Weight: 2247 kg (4,954 lbs)



Weight Adjustment Method:

(standard procedure to be used unless otherwise specified. Define which parts should be removed first if the vehicle is over the target weight after occupants and instrumentation are added)

Weight represents a 3.7L Liberty Renegade + 2 50th male occupants + luggage (4324lbs + 330lbs + 300lbs = 4954lbs)

Weight Balance and Luggage:

Please note: <u>This section is OPTIONAL.</u> Values entered here are approximate.

Total Front 1,173 kg (2,586 lbs



Total Rear 1,074 kg (2,368 lbs)



Luggage: 136.1 kg



ACTUAL TEST WEIGHT: 2245.3 KG

WEIGHT BALANCE:

- TOTAL FRONT: 1170.7 KG - TOTAL REAR: 1074.6 KG

ADDITIONAL BALLAST INSTALLED: N/A

DETAIL OF ADDITIONAL BALLAST INSTALLED: N/A

ACTUAL TEST SPEED: 48.8 KPH

SPEED DETERMINED BY: ELECTRONIC TRAP TIMER 1



Mechanical Requirements:

Specific Work to Be Done at Test Site:

CAUTION: ensure the weight balance of the vehicle matches the numbers in the Test Weight section

CAUTION: ensure all 5 tire pressures have been set to the recommended 33 psi

CAUTION: do not remove access panel in the cargo area

CAUTION: ensure the parking brake is disengaged, the transmission is in neutral, and the transfer case is in neutral

Part R&R: please replace all 5 tire and wheel assemblies, old part disposition TBD, delivery 03/05/03

Part R&R: remove exhaust hanger and cut post from exhaust at location shown in attachment "exhaust_hanger.ppt" below

Part R&R: remove fuel line clip and cut stud at location shown in attachment "fuel clip 030403.ppt" below

DO NOT DISTURB: swing gate, flipper glass, and spare tire

TEST VEHICLE WITH 17.6 GALLONS STODDARD IN FUEL SYSTEM

FUEL FILL TO SPEC IS MANDATORY

PRE-TEST PRESSURE CHECK REQUIRED

FUEL PUMP RUNNING DURING TEST

STATIC ROLL ASSESSMENT REQUIRED (SLWI3532)

Steering Column Setting: mid

Seat Back Setting: 23.5

Seat Head Restraint Setting: highest position possible

Pre-Test Measurement: vehicle attitude as received and post instrumentation build-up - ensure that the difference is uniform across the four

Paint: floor pan around the gas tank and fuel filler tube in a bright colour for contrast during filming

Work Orders for This Test:	
PRE TEST:	POST TEST:

Extra Attachments, Rich Text or Additional Info here if required:





exhaust hanger.pp fuel clip 030403.pp

Document Information

Date Created: 02/14/2003 10:14 AM
Created By: Roger Bortolin/JTE/DCC/DCX
Last Edited: 03/20/2003 08:26:19 AM
Edited By: Brian D Grenke/CPG/DCC/DCX

Edit History:

Edit History:
2/27/03 9:03:03 AM Glenn A Buss TestSite [CPG]> [Alt. Site TBA] MODIFIED /Rev#:2
02/27/2003 09:03:29 AM Glenn A Buss: Additional Comments: Hope to run at Autoliv 3/10. New wheels & tires will be delivered there. /Rev#:2
2/27/2003 9:35:32 AM Michael T Stebelton SchedTest []> [03/10/2003 12:00:00 AM] MODIFIED /Rev#:3
2/27/2003 9:35:32 AM Michael T Stebelton Slot []> [1st] MODIFIED /Rev#:3
2/27/2003 9:35:32 AM Michael T Stebelton TestSite [Alt. Site TBA]> [Morton-AutoLiv] MODIFIED /Rev#:3
2/27/2003 10:32:06 AM Michael D Rhew VehicleChan [0]> [15] MODIFIED /Rev#:4
3/3/2003 9:14:29 AM Michael T Stebelton EditApprovalStatus []> [**** TEST REQUEST INITIALLY APPROVED ****] MODIFIED /Rev#:6
3/3/2003 9:23:47 AM Michael T Stebelton FAPVFALater [VELOCITY]> [] MODIFIED /Rev#:7
3/3/2003 9:23:47 AM Michael T Stebelton FAOrder [Targets and Views for 'If Requested' FA Only]> [No Film Analysis on This Test] MODIFIED /Rev#:7
2/28/2003 11:25:40 AM Eric G Willis MECHlistall [Part R&R: please replace all 5 tire and wheel assemblies, old part disposition TBD, delivery TBD] ADDED /Rev#:5 3/3/2003 2:32:44 PM Eric G Willis ShipDate [02/21/2003 12:00:00 AM]> [03/04/2003 12:00:00 AM] MODIFIED /Rev#:6
3/4/2003 2:46:12 PM Suzanne M Marsh BuildCondition [2004 S1 BUILT LIBERTY RENEGADE]> [2004 S1 BUILT LIBERTY RENEGADE FLEET #: C4KJJ-0212] MODIFIED /Rev#:7
3/4/2003 2:46:12 PM Suzanne M Marsh BuildConditionMods [- INSTALLED PASSENGER SEAT BELT WIRING HARNESS TO PRETENSIONER] REMOVED /Rev#:7
3/4/2003 2:46:12 PM Suzanne M Marsh BuildConditionMods [- ORC WITH CALIBRATION 5 PER SERIAL NUMBER NOTED ABOVE] REMOVED /Rev#:7
3/4/2003 2:46:12 PM Suzanne M Marsh BuildConditionMods [- DID NOT INSTALL PASSENGER SEAT BELT WIRING HARNESS TO PRETENSIONER] ADDED /Rev#:7
3/4/2003 2:46:12 PM Suzanne M Marsh BuildConditionMods [- DID NOT FLASH ORC WITH CALIBRATION 5] ADDED /Rev#:7
Last Edit:
03/20/2003 08:19:18 AM Brian D Grenke FINAL TEST LETTER SUBMITTED 3/11/2003 10:05:28 AM Michael T Stebelton EditApprovalStatus []> [**** TEST REQUEST INITIALLY APPROVED ****] MODIFIED /Rev#:9

Click here to view previous edits

Old Change Method Info

History of Changes to This Record After Test Request Approval:

Date/Time	Edited By	Description					
	Roger	TEST REQUEST INITIALLY APPROVED					
	Bortolin/JTE/DCC/DCX						

DATE 03/20/03 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 14:37:48. EDP TEST LETTER DEPT 5320

VC10546 ITEM KJ4W100041

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041

04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03

TEST SITE MORTON-AUTOLIV

TEST PURPOSE PRIMARY, 2004 USA 301-REAR COMPLIANCE

TARGET SPEED; 48.3 KPH IMPACT TYPE

> DAMAGE LOCATION; REAR (FULL) BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ

> CAR LINE; J BODY; 74

ENGINE; 3.7 LITER

ENGINE NOTE; V6
TRANSMISSION; 5 SPEED MANUAL

TRANS. NOTE;

VIN AS TESTED; 1J8GL38K74W VIN AS BUILT; 1J8GL38K74W MOD. MOD.

48.8 KPH BY ELECTRONIC TRAP TIMER 1 TEST SPEED

TEST WEIGHT (KG) 2245.3 TOTAL, 1170.7 FRONT, 1074.6 REAR

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-TA1

RESTRAINT- 3-PT UNIBELT ONLY

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-TA2

RESTRAINT- 3-PT UNIBELT ONLY

DATE 03/20/03 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 14:37:48. EDP TEST LETTER DEPT 5320

VC10546 ITEM KJ4W100041

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041

04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03

TEST SITE MORTON-AUTOLIV

BUILD CONDITION

ORIGINAL BUILD: 2004 S1 BUILT LIBERTY RENEGADE --FLEET #: C4KJJ-0212

MODIFICATIONS: - REMOVED ONE OF THREE DOOR HINGE BOLTS FROM ALL FOUR PASSENGER DOORS

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TETHER, STAR FOLD

- PAB PPI32S 50/50 LS2 INFLATOR - CYLINDRICAL, 160 LITRES, 2X50 MM VENTS, NO TETHER, UNCOATED 585 DTEX MATERIAL, 50/50 FOLD

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- INSTALLED PASSENGER SEAT BELT WITH MONOTWILL RUKAFLEX WEBBING, 9.5MM DIAMETER TORSION BAR, PRETENSIONER, AND BUCKLE TENSION SENSOR

- DID NOT INSTALL PASSENGER SEAT BELT WIRING HARNESS TO PRETENSIONER

- DID NOT FLASH ORC WITH CALIBRATION 5

TARGET WEIGHT (KG) 2247 TOTAL, 1173 FRONT, 1074 REAR INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 68.1 LITERS STODDARD SOLVENT

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

EDP TECHNICIAN S. MARCHENIA

No. of Pages 23 CC

BURTULIN 514-17-39 STEBELTON 422-05-01 R. BORTOLIN Μ.

DATE 03/20/03 TEST VALUES SAFETY TEST TIME 14:37:57. EDP CHANNEL SUMMARY DEPT 5320

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041 04 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 03/10/03 SPEED 48.8 TEST WT 2245.3

LIBRARY VC10546

Errata # 1 Data Set 03/20/03QA CHL001-015 30.3 FRT VC10546T

The data is displayed in the Metric system of Units (G, CM, N, N-M, KPH, etc.)

CHL	TRANSDUCER LOCATIO	N		FFT 1000 CFC PEAK	FFT 600 CFC PEAK	PH 180 CFC PEAK	PH 60 CFC PEAK	AT 300MS	
1	LEFT FRONT SILL		97D10-G	-47.9	-47.6	-45.2	-32.6	-25.2	KPH
2	LEFT FRONT SILL	Y	98L10-K	-59.5	48.6	17.0	9.8	-0.7	KPH
3	LEFT FRONT SILL	Z	98L14-N	-50.6	-39.2	-14.0	-7.5	0.8	KPH
4	RIGHT FRONT SILL	X	97I15-A	-58.3	-56.2	-49.2	-35.9	-26.5	KPH
5	RIGHT FRONT SILL	Y	03A20-N	-57.6	-42.5	18.5	-7.2	-0.8	KPH
6	RIGHT FRONT SILL	Z	98L14-N	44.5	37.3	-13.6	-8.0	-0.4	KPH
7	LEFT RAIL MID TANK	X	99F28-Z	142.4	90.7	-64.8	-43.7	-25.1	KPH
8	LEFT RAIL MID TANK	Y	99G28-Z	-262.5	-160.5	-54.6	-33.5	-3.4	KPH
9	LEFT RAIL MID TANK	Z	99F23-F	351.1	-186.0	62.3	38.5	0.3	KPH
10	RIGHT RAIL MID TANK	X	97D15-G	82.8	-73.7	-57.8	-44.4	-25.0	KPH
11	RIGHT RAIL MID TANK	Y	97D15-J	167.5	107.3	-43.6	-16.0	-1.4	KPH
12	RIGHT RAIL MID TANK	Z	97I22-F	-229.6	-159.1	61.0	41.5	1.3	KPH
13	FUEL TANK BOTTOM ACC	Y	B12952	93.4	92.3	91.2	74.2	G	KPH*
14	FUEL TANK BOTTOM ACC	X	98L07-K	-301.1	-290.2	-263.7	-147.2	-34.6	KPH*
15	FUEL TANK BOTTOM ACC	Z	98L10-N	-466.8	-297.5	175.3	79.1	-7.2	KPH*

Multi-Channel Plot data

CHLS & 1 4 CL PH60 AVERAGE OF FRT SILL -324.4G AT .1 MS

* - See Notes & Comments page

DATE 03/20/03 TEST VALUES SAFETY TEST TIME 14:37:57. NOTES & COMMENTS DEPT 5320

VC10546 48.3 KPH REAR (FULL) TYPE IV ITEM KJ4W100041 04 KJ, USA 301-REAR COMPLIANCE TEST

*************** AFTER 38 MSEC. **************

DATE 05/13/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 11:48:17. EDP TEST LETTER DEPT 5320

ITEM 5W500044 VC11711

VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044

05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 05/13/04

TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.0 KPH

DAMAGE LOCATION; REAR FULL BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; ΚJ

> CAR LINE; NONE BODY; 74 ENGINE; EKG

ENGINE NOTE;

TRANSMISSION; DEH

TRANS. NOTE;

VIN AS TESTED; VIN AS BUILT; 1J8GL38K65W

1J8GL38K65W

TEST SPEED 48.95 KPH BY TRAP A AVERAGE

TEST WEIGHT(KG) 2233.98 TOTAL, 1182.08 FRONT, 1051.9 REAR,

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-75

RESTRAINT- UNIBELT

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60

RESTRAINT- UNIBELT

ORIGINAL BUILD: BUILD CONDITION

> 2005 S1 BUILD LIBERTY RENEGADE (KJJM74)3.7L ? 6SP MAN ? 4X4- NO POWER SEAT- HAS SIDE AIRBAG- HAS TOW HOOKS- HAS FRONT SKID PLATE- HAS FUEL TANK SKID P

LATE- NO SUN ROOF MODIFIED BUILD:

- INSTALLED 05 S2 GASOLINE FUEL TANK - REMOVED TRA ILER HITCH- REMOVED FUEL TANK SKID PLATE- REMOVED

REAR TOW HOOKS

MODIFIED EMD BUILD:

TARGET WEIGHT (KG) 2231.0 TOTAL, 1160.2 FRONT, 1070.9 REAR

INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 73.8 LITRES STODDARD SOLVENT

195.04 KG ADDITIONAL BALLAST WEIGHTS

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

DATE 05/13/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 11:48:17. EDP TEST LETTER DEPT 5320

VC11711 ITEM 5W500044 VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044 05 KJ, USA 301-REAR COMPLIANCE TEST TEST DATE 05/13/04 TEST SITE CPG EDP TECHNICIAN S. MARCHENIA

No. of Pages 29 CC

S. MARSH M. STEBELTON 514-17-39 422-05-01

VEHICLE CRASH ENGINEERING VEHICLE CRASH TEST LETTER

VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044 05 KJ, USA 301-REAR COMPLIANCE TEST TEST DATE 05/13/04 TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.0 KPH DAMAGE LOCATION; REAR FULL

BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; ΚJ

CAR LINE; NONE 74 BODY; ENGINE; EKG

ENGINE NOTE;

TRANSMISSION; DEH

TRANS. NOTE;

VIN AS TESTED; 1J8GL38K65W

VIN AS BUILT; 1J8GL38K65W

TEST SPEED 48.95 KPH BY TRAP A AVERAGE

TEST WEIGHT(KG) 2233.98 TOTAL, 1182.08 FRONT, 1051.9 REAR,

1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-75 OCCUPANTS

RESTRAINT- UNIBELT

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60

RESTRAINT- UNIBELT

BUILD CONDITION ORIGINAL BUILD:

> 2005 S1 BUILD LIBERTY RENEGADE (KJJM74)3.7L ? 6SP MAN ? 4X4- NO POWER SEAT- HAS SIDE AIRBAG- HAS TOW HOOKS- HAS FRONT SKID PLATE- HAS FUEL TANK SKID P

LATE- NO SUN ROOF MODIFIED BUILD:

- INSTALLED 05 S2 GASOLINE FUEL TANK - REMOVED TRA

ILER HITCH- REMOVED FUEL TANK SKID PLATE- REMOVED

REAR TOW HOOKS

MODIFIED EMD BUILD:

TARGET WEIGHT (KG) 2231.0 TOTAL, 1160.2 FRONT, 1070.9 REAR

INCLUDING BALLAST AND OCCUPANTS

VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044 05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 05/13/04

TEST SITE CPG

FUEL AND BALLAST 73.8 LITRES STODDARD SOLVENT

195.04 KG ADDITIONAL BALLAST WEIGHTS

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

REPORT CODES A = TRANSDUCER DATA B = ALL FILM DATA

M. STEBELTON DISTRIBUTION 422-05-01 (AB)

S. MARSH 514-17-39 (AB)

DATE 05/13/04 TIME 08:34:46.

DATE 05/13/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 11:48:17. EDP TEST LETTER DEPT 5320

VC11711 ITEM 5W500044

VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044

05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 05/13/04

TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.0 KPH

DAMAGE LOCATION; REAR FULL BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ

CAR LINE; NONE BODY; 74 ENGINE; EKG

ENGINE NOTE;

TRANSMISSION; DEH

TRANS. NOTE;

VIN AS TESTED; 1J8GL38K65W VIN AS BUILT; 1J8GL38K65W

TEST SPEED 48.95 KPH BY TRAP A AVERAGE

TEST WEIGHT(KG) 2233.98 TOTAL, 1182.08 FRONT, 1051.9 REAR,

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-75

RESTRAINT- UNIBELT

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60

RESTRAINT- UNIBELT

BUILD CONDITION ORIGINAL BUILD:

2005 S1 BUILD LIBERTY RENEGADE (KJJM74)3.7L ? 6SP MAN ? 4X4- NO POWER SEAT- HAS SIDE AIRBAG- HAS TOW HOOKS- HAS FRONT SKID PLATE- HAS FUEL TANK SKID P

LATE- NO SUN ROOF MODIFIED BUILD:

- INSTALLED 05 S2 GASOLINE FUEL TANK - REMOVED TRA ILER HITCH- REMOVED FUEL TANK SKID PLATE- REMOVED

REAR TOW HOOKS

MODIFIED EMD BUILD:

TARGET WEIGHT(KG) 2231.0 TOTAL, 1160.2 FRONT, 1070.9 REAR

INCLUDING BALLAST AND OCCUPANTS

FUEL AND BALLAST 73.8 LITRES STODDARD SOLVENT

195.04 KG ADDITIONAL BALLAST WEIGHTS

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

DATE 05/13/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 11:48:17. EDP TEST LETTER DEPT 5320

VC11711 ITEM 5W500044 VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044 05 KJ, USA 301-REAR COMPLIANCE TEST TEST DATE 05/13/04 TEST SITE CPG EDP TECHNICIAN S. MARCHENIA

No. of Pages 29 CC

S. MARSH M. STEBELTON 514-17-39 422-05-01

DATE 05/13/04 TEST VALUES SAFETY TEST TIME 11:49:46. EDP CHANNEL SUMMARY DEPT 5320

VC11711 48.0 KPH REAR REAR TYPE IV ITEM 5W500044 05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 05/13/04 SPEED 48.9 TEST WT 2233.9

LIBRARY VC11711

Errata # 1 Data Set 05/13/04BA CHL001-016 30.4 REAR VC11711E Errata # 1 Data Set 05/13/04BB CHL017-032 30.4 REAR VC11711E

The data is displayed in the Metric system of Units (G, CM, N, N-M, KPH, etc.)

CHL	TRANSDUCER LOCATIO	N 		1000 CFC PEAK	DCX 600 CFC PEAK	180 CFC PEAK	PH 60 CFC PEAK	AT 300MS	
1	LEFT FRONT SILL	Х	P23321	-40.5	-39.2	-34.9	-28.4	-25.6 KE	PН
		Y	P16172	50.3	42.5	16.7	8.0	0.2 KE	
3	LEFT FRONT SILL	Z	P18599	-53.4	-42.2		7.8	1.0 KE	PΗ
4	RIGHT FRONT SILL	X	P24117	-48.0	-46.5	-40.3	-31.9	-24.9 KE	PΗ
5	RIGHT FRONT SILL	Y	P26904	47.4	29.4	18.0	5.4	-0.8 KE	PΗ
6	RIGHT FRONT SILL	Z	ETBB726	-34.8	30.5	-13.1	-9.1	-0.5 KE	PΗ
7	LEFT REAR SILL	X	P26894	-44.4	-36.3	-32.4	-26.5	-26.7 KE	PΗ
8	LEFT REAR SILL	Y	P27150	-60.8	-51.4	19.3	-6.8	-1.3 KF	PΗ
9	LEFT REAR SILL	Z	P17572	67.2	48.4	14.8	-8.2	1.3 KE	PΗ
10	RIGHT REAR SILL	X	P21804	-48.4	-43.4		-30.5	-26.1 KE	PΗ
11	RIGHT REAR SILL	Y	P26845	63.7	58.1	21.6	-10.0	-0.9 KE	PΗ
12	RIGHT REAR SILL	Z	P26839	-38.6	27.2		10.1	0.3 KE	
13	FUEL TANK BOTTOM ACC	X	P14926	229.1	209.8	145.8		-26.8 KE	PΗ
14	FUEL TANK BOTTOM ACC	Y	P16669		94.7	58.7	30.4	1.0 KF	PΗ
15	FUEL TANK BOTTOM ACC	Z	P17454	-158.6		-114.0		-1.2 KF	PΗ
33	M-FLAT LT RAIL MID	X			39.6		21.8	29.9 KE	
34	M-FLAT RT RAIL MID	X	ETBB316		55.0		22.8	30.3 KE	PΗ

Multi-Channel Plot data

CHLS 1 4 7 1 & 0 CL PH60 AVERAGE OF FRT SILL -225.0G AT .2 MS CHLS & 1 4 CL PH60 AVERAGE OF FRT SILL -324.9G AT .1 MS

DATE 06/15/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 10:18:26. EDP TEST LETTER DEPT 5320

ITEM 5W500049 VC11790

VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049

05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 06/14/04

TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.0 KPH

DAMAGE LOCATION; REAR FULL BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

BODY CLASS; VEHICLE ΚJ

CAR LINE; NONE BODY; 74 ENGINE; ENR

ENGINE NOTE;

TRANSMISSION; DGQ

TRANS. NOTE;

VIN AS TESTED; VIN AS BUILT; 1J8GL58585W

1J8GL58585W

TEST SPEED 48.63 KPH BY TRAP AVERAGE AVERAGE

TEST WEIGHT(KG) 2327.87 TOTAL, 1231.52 FRONT, 1096.35 REAR,

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-70

RESTRAINT- UNIBELT

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60

RESTRAINT- UNIBELT

ORIGINAL BUILD: BUILD CONDITION

> 2005 S1 BUILD LIBERTY LIMITED (KJJP74)2.8L ? 5SP A UTO ? 4X4 - HAS POWER SEAT- HAS SIDE AIRBAG- HAS T OW HOOKS- HAS FRONT SKID PLATE- HAS FUEL TANK SKID

PLATE

MODIFIED BUILD:

- INSTALLED 05 S2 DIESEL FUEL TANK- REMOVED TRAILE

R HITCH, FUEL TANK SKIDPLATE, AND REAR TOW HOOK

MODIFIED EMD BUILD:

TARGET WEIGHT (KG) 2323.8 TOTAL, 1231.6 FRONT, 1092.2 REAR

INCLUDING BALLAST AND OCCUPANTS

DATE 06/15/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 10:18:26. EDP TEST LETTER DEPT 5320

VC11790 ITEM 5W500049

VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049

05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 06/14/04

TEST SITE CPG

FUEL AND BALLAST 73.8 LITRES STODDARD SOLVENT

330LBS 2-50TH BALLAST ATD'S SECOND ROW; 75LBS ON 2

R FLOOR.

KG ADDITIONAL BALLAST WEIGHTS

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

EDP TECHNICIAN S. MARCHENIA

No. of Pages 29

CC

S. MARSH 514-17-39 M. STEBELTON 422-05-01 VEHICLE CRASH ENGINEERING VEHICLE CRASH TEST LETTER

VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049 05 KJ, USA 301-REAR COMPLIANCE TEST TEST DATE 06/14/04 TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.0 KPH

DAMAGE LOCATION; REAR FULL BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS; KJ

CAR LINE; NONE BODY; 74 ENGINE; ENR

ENGINE NOTE;

TRANSMISSION; DGQ

TRANS. NOTE;

VIN AS TESTED; 1J8GL58585W

VIN AS BUILT; 1J8GL58585W

TEST SPEED 48.63 KPH BY TRAP AVERAGE AVERAGE

TEST WEIGHT(KG) 2327.87 TOTAL, 1231.52 FRONT, 1096.35 REAR,

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-70

RESTRAINT- UNIBELT

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60

RESTRAINT- UNIBELT

BUILD CONDITION ORIGINAL BUILD:

2005 S1 BUILD LIBERTY LIMITED (KJJP74)2.8L ? 5SP A UTO ? 4X4 - HAS POWER SEAT- HAS SIDE AIRBAG- HAS T OW HOOKS- HAS FRONT SKID PLATE- HAS FUEL TANK SKID

PLATE

MODIFIED BUILD:

- INSTALLED 05 S2 DIESEL FUEL TANK- REMOVED TRAILE

R HITCH, FUEL TANK SKIDPLATE, AND REAR TOW HOOK

MODIFIED EMD BUILD:

TARGET WEIGHT(KG) 2323.8 TOTAL, 1231.6 FRONT, 1092.2 REAR

INCLUDING BALLAST AND OCCUPANTS

VEHICLE CRASH ENGINEERING VEHICLE CRASH TEST LETTER

VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049 05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 06/14/04

TEST SITE CPG

FUEL AND BALLAST 73.8 LITRES STODDARD SOLVENT

330LBS 2-50TH BALLAST ATD'S SECOND ROW; 75LBS ON 2

R FLOOR.

KG ADDITIONAL BALLAST WEIGHTS

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

REPORT CODES A = TRANSDUCER DATA B = ALL FILM DATA

DISTRIBUTION M. STEBELTON 422-05-01 (AB)

S. MARSH 514-17-39 (AB)

DATE 06/15/04 TIME 09:05:49.

DATE 06/15/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 10:18:26. EDP TEST LETTER DEPT 5320

ITEM 5W500049 VC11790 VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049

05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 06/14/04

TEST SITE CPG

TEST PURPOSE PRIMARY, 2005 USA 301-REAR COMPLIANCE

IMPACT TYPE TARGET SPEED; 48.0 KPH

> DAMAGE LOCATION; REAR FULL BARRIER TYPE; REAR TYPE IV

BARRIER SURFACE; PLYWOOD

BODY CLASS; VEHICLE ΚJ

CAR LINE; NONE BODY; 74 ENGINE; ENR

ENGINE NOTE;

TRANSMISSION; DGQ

TRANS. NOTE;

VIN AS TESTED; VIN AS BUILT; 1J8GL58585W

1J8GL58585W

TEST SPEED 48.63 KPH BY TRAP AVERAGE AVERAGE

TEST WEIGHT(KG) 2327.87 TOTAL, 1231.52 FRONT, 1096.35 REAR,

OCCUPANTS 1L - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-70

RESTRAINT- UNIBELT

1R - 50TH MALE BALLAST HYBRID 2, 0 - CH AD-60

RESTRAINT- UNIBELT

ORIGINAL BUILD: BUILD CONDITION

> 2005 S1 BUILD LIBERTY LIMITED (KJJP74)2.8L ? 5SP A UTO ? 4X4 - HAS POWER SEAT- HAS SIDE AIRBAG- HAS T OW HOOKS- HAS FRONT SKID PLATE- HAS FUEL TANK SKID

PLATE

MODIFIED BUILD:

- INSTALLED 05 S2 DIESEL FUEL TANK- REMOVED TRAILE R HITCH, FUEL TANK SKIDPLATE, AND REAR TOW HOOK

MODIFIED EMD BUILD:

TARGET WEIGHT (KG) 2323.8 TOTAL, 1231.6 FRONT, 1092.2 REAR

INCLUDING BALLAST AND OCCUPANTS

DATE 06/15/04 ELECTRONIC DATA PROCESSING VEHICLE CRASH ENGINEERING TIME 10:18:26. EDP TEST LETTER DEPT 5320

VC11790 ITEM 5W500049

VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049

05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 06/14/04

TEST SITE CPG

FUEL AND BALLAST 73.8 LITRES STODDARD SOLVENT

330LBS 2-50TH BALLAST ATD'S SECOND ROW; 75LBS ON 2

R FLOOR.

KG ADDITIONAL BALLAST WEIGHTS

136.1 KG BALLAST WEIGHT SECURED IN CARGO AREA

EDP TECHNICIAN S. MARCHENIA

No. of Pages 29

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S. MARSH 514-17-39 M. STEBELTON 422-05-01 DATE 06/15/04 TEST VALUES
TIME 10:18:56. EDP CHANNEL SUMMARY

SAFETY TEST DEPT 5320

VC11790 48.0 KPH REAR REAR TYPE IV ITEM 5W500049 05 KJ, USA 301-REAR COMPLIANCE TEST

TEST DATE 06/14/04 SPEED 48.6 TEST WT 2327.8

LIBRARY VC11790

Errata # 1 Data Set 06/14/04BQ CHL001-016 30.2 FRT VC11790E Errata # 1 Data Set 06/14/04BR CHL017-032 30.2 FRT VC11790E

The data is displayed in the Metric system of Units (G, CM, N, N-M, KPH, etc.)

CHL	TRANSDUCER LOCATIO	N		1000 CFC PEAK	DCX 600 CFC PEAK		PH 60 CFC PEAK	AT 300MS
1	LEFT FRONT SILL	X	ETBB7B9	-45.5	-44.9	-40.9	-31.3	-25.2 KPH
2	LEFT FRONT SILL	Y	ETBB736	31.9	28.3	-17.3	-5.2	-0.4 KPH
3	LEFT FRONT SILL	Z	ETBB879	-37.9	31.5	15.0	-7.0	0.3 KPH
4	RIGHT FRONT SILL	X	ETBB713	-43.3	-42.2	-38.5	-31.5	-26.0 KPH
5	RIGHT FRONT SILL	Y	ETBB753	-49.4	-44.5	16.5	7.9	-0.9 KPH
6	RIGHT FRONT SILL	Z	ETBB746	-42.9	-33.8	20.1	9.5	0.9 KPH
7	LEFT REAR SILL	X	ETBB161	-43.9		-39.1	-29.9	-25.8 KPH
8	LEFT REAR SILL		ETBB826		34.5	17.9	8.1	0.1 KPH
9	LEFT REAR SILL	Z	ETBB825	43.1	40.3	-17.3	-8.2	0.0 KPH
10	RIGHT REAR SILL	X	ETBB763	-38.3	-38.0	-36.8	-29.6	-25.5 KPH
11	RIGHT REAR SILL	Y	ETBB793	-43.7	-39.2			0.9 KPH
12	RIGHT REAR SILL	Z	ETBB372	-78.6	-61.0	-16.5	10.5	1.1 KPH
13	FUEL TANK BOTTOM ACC	X	ETBB719	227.3		-94.6		-26.8 KPH
14	FUEL TANK BOTTOM ACC	Y	ETBB868	132.8	82.3		28.0	
15	FUEL TANK BOTTOM ACC	Z	ETBB749	-203.0		115.8		-1.5 KPH
33	M-FLAT LT RAIL MID	X	ETBB765		0 0		20.4	
34	M-FLAT RT RAIL MID	X	ETBB316		51.3		-23.3	28.4 KPH

Multi-Channel Plot data

CHLS 1 4 7 1 & 0 CL PH60 AVERAGE OF FRT SILL -325.6G AT .6 MS CHLS & 1 4 CL PH60 AVERAGE OF FRT SILL -325.6G AT .4 MS

SAFETY TEST VEHICLE CRASH TEST LETTER

VC09094 30 MPH REAR MOVING BARRIER, KJJ-74 ITEM KJ6333 2002 MVSS REAR IMPACT COMPLIANCE TEST DATE 03/12/01

TEST PURPOSE

PRIMARY, 2002 USA 301 COMPLIANCE. SECONDARY, 2002 TRIAS-33 COMPLIANCE

IMPACT TYPE

TARGET SPEED; 30.0 MPH DAMAGE LOCATION; REAR CENTER BARRIER TYPE; REAR TYPE IV BARRIER SURFACE; PLYWOOD

VEHICLE BODY CLASS;

KJ CAR LINE; J BODY; 74

ENGINE; 3.7 LITRE
ENGINE NOTE; ELECTRONIC FUEL INJECTION
TRANSMISSION; 4 SPEED AUTO ELECTRONIC 4x4
TRANS. NOTE:

TRANS. NOTE;

VIN AS TESTED; 1J8GL58K02W VIN AS BUILT; 1J8GL58K02W

MOD. MOD.

TEST SPEED

30.6 MPH SOURCE TRAP TIMER

TEST WEIGHT (LBS) 4864 TOTAL, 2574 FRONT, 2290 REAR

OCCUPANTS

LEFT FRONT, HII BALLAST

AD-47

RESTRAINT-RESTRAINT - BELTS ONLY

RIGHT FRONT - HII BALLAST

AD-61

RESTRAINT-RESTRAINT - BELTS ONLY

BUILD CONDITION

2002 DESIGN INTENT SWING GATE HANDLE W/146G C/B

AND ANTI-ROTATION FINGER

ORC CALIBRATION N

MODIFY WELDS @ SPLICE JOINT TO PRODUCTION INTENT

2002 PRODUCTION INTENT EXHAUST FLANGE

2002 DESIGN INTENT FUEL LINES

TARGET WEIGHT (LBS) 4233 LBS TOTAL, 2235 LBS FRONT, 1998 LBS REAR REPRESENTS MAX OPTION WEIGHT FOR 3.7L 4X4 KJ

WITHOUT OCCUPANTS OR LUGGAGE

 $(TARGET\ TEST\ WEIGHT\ 4863\ =\ 4233\ +\ 330\ +\ 300)$

FUEL AND BALLAST

17.5 GALLONS OF STODDARD SOLVENT

350 LBS. SECURED IN LF AND REAR SEAT AREA

ITEM KJ6333 CHARGE NO. 02 ISSUE DATE 03/08/01

SUPPLEMENT NO. 01

VC 909 4 30 MPH REAR	MOVING BARRIER, KJJ-74				
2002 MVSS REAR IMPA					
TEST DATE	$\frac{3/14/01}{\text{SPEED}_{30.6}/01} \text{ MPH} \qquad \text{ENG}$	SOURCE Ly			
TEST PURPOSE	PRIMARY, 2002 USA 301 COMPLIANCE. SECONDARY, 2002 TRIAS-33 COMPLIANCE				
IMPACT TYPE	TARGET SPEED; 30.0 M DAMAGE LOCATION; REAR C BARRIER TYPE; REAR T BARRIER SURFACE; PLYWOO	ENTER YPE IV			
VEHICLE	BODY CLASS; KJ CAR LINE; J BODY; 74 ENGINE; 3.7 L ENGINE NOTE; ELECTR TRANSMISSION; 4 SPEE TRANS. NOTE; VIN AS TESTED; 1J8GL5 VIN AS BUILT; 1J8GL5	BK02W MOD.			
BUILD CONDITION	2002 DESIGN INTENT SWING GATE HANDLE W/146G C/B AND ANTI-ROTATION FINGER ORC CALIBRATION N MODIFY WELDS @ SPLICE JOINT TO PRODUCTION INTENT 2002 PRODUCTION INTENT EXHAUST FLANGE 2002 DESIGN INTENT FUEL LINES				
TARGET WEIGHT (LBS)	4233 LBS TOTAL, 2235 LBS FRONT, 1998 LBS REAR REPRESENTS MAX OPTION WEIGHT FOR 3.7L 4X4 KJ WITHOUT OCCUPANTS OR LUGGAGE (TARGET TEST WEIGHT 4863 = 4233 + 330 + 300)				
TEST WEIGHT (LBS)	7869 TOTAL, 25	$\frac{74}{1}$ front, $\frac{229}{1}$ rear			
FUEL BALLAST	17.5 GALLONS OF STODDARD SOLVENT				
LUGGAGE BALLAST	300 LBS	2			
OTHER BALLAST	JUST IN Run Sent	ANS			
POST TEST REMARKS					

SUPPLEMENT NO. 01

OCCUPANTS

LEFT FRONT, HII BALLAST RESTRAINT-RESTRAINT - BELTS ONLY RIGHT FRONT - HII BALLAST RESTRAINT-RESTRAINT - BELTS ONLY

MECHANICAL REQ

TARGET VEHCILE PER 02KJ THIRD SHEETS FOR REAR IMPACTS (UNDERBODY AND LEFT SIDE) PLACE TARGETS ON TOP, LT AND RT SIDE OF SPARE TIRE THAT WILL BE VISIBLE IN CAMERA VIEWS PLEASE INSTALL NEW TRAILER HITCH, SWING GATE WITH HANDLE EOUIP. AND SKID PLATE PAINT REAR GATE HANDLE TO ENSURE ANY MOVEMENT IS VISIBLE IN FILM POSITION DRIV AND PASS SEATS IN MID POSITION ENSURE SPARE TIRE, SWING GATE & FLIPPER GLASS REMAIN IN PLACE FOR TEST ENSURE PARKING BRAKE IS DISENGAGED AND TRANS IS IN NEUTRAL MEASURE VEHICLE ATTITUDE AS RECEIVED AND WHEN TESTED PRESSURE TEST PRE-TEST WITH PUMP RUNNING FUEL PUMP TO BE RUNNING DURING TEST STATIC ROLL VEHICLE POST TEST PAINT RAILS & REAR UNDERBODY COMPONENTS INCLUDING FUEL FILLER LINE, PASS THRU HOLE IN RAIL, FUEL TANK CANISTER, REAR SUSPENSION, REAR BUMPER, OVOR CANISTER, LINES AND EQUIPMENT, ETC. IN CONTRASTING COLORS FOR UNDERBODY VIEW.

INSTRUMENTATION REQ ENSURE DRIV & PASS AIRBAGS, SIDE CURTAINS & PRETENSIONERS DO NOT DEPLOY

ENSURE VEHICLE ELECTRICAL SYSTEM IS POWERED

SUPPLEMENT NO. 01

PHOTOGRAPHIC REQ

- 1-VELOCITY CAMERA
- 1-LEFT OVERALL (DYNAMIC CRUSH)
- 1-RIGHT OVERALL
- 2-PIT CAMERAS FOR REAR UNDERBODY ANALYSIS
- 1-LT SIDE CLOSE UP OF FUEL FILLER AREA FROM PIT
- 1-LT & RT CLOSE UP OF REAR QUARTERS OF VEHICLE
- 1-OVERHEAD VIEW OF SWING GATE HANDLE AT EVENT
- 1-OVERHEAD VIEW CONTINUING SWING GATE HANDLE VIEW THROUGH EVENT

ALL CAMERAS TO HAVE DIGITAL TIMING IF POSSIBLE PRE & POST TEST PHOTOS OF OVERALL & UNDERBODY (REAR), FRAME RAILS, FUEL TANK/REAR AXLE AREA, ETC

FILM ANALYSIS

REAR DYNAMIC CRUSH - IF REQUESTED REAR UNDERBODY ANALYSIS - IF REQUESTED VEHICLE VELOCITY - IF REQUESTED

REMARKS

TEST REQUESTER: ANNE STEFANGO 733-5368 MAKE 1 COPY OF FILM AND VIDEO AND SEND TO

A. STEFANGO 514-17-39

PLEASE RETURN VEHICLE TO PROC ATTN: PAM MORTON

T. E. REPORT

FUEL SYSTEM REPORT REQUIRED

REPORT CODES

A = TRANSDUCER DATA
C = HIGH SPEED FILM
D = ENGINEER'S REPORT
E = DUMMY KINEMATICS
F = STEERING COLUMN
G = UNDERBODY
H = A-POST
I = DYNAMIC CRUSH
J = ENGINE COMPARTMENT
K = DOOR CRUSH
L = FORCE/CRUSH/ENERGY
M = SPECIAL
N = CATALOG EDP DATA

* = REPORT REQUESTOR

DISTRIBUTION

A. STEFANGO 514-17-39 (AB)
M. STEBELTON 422-05-01 (AR)

SUPPLEMENT NO. 01

SUPPLEMENT 01

MECHANICAL REQ

ADD PLEASE INSTALL NEW TRAILER HITCH, SWING GATE WITH ADD HANDLE EOUIP. AND SKID BLAND

INSTRUMENTATION REQ

DELETE SWINGGATE ABOVE DOOR HANDLE X,Z (2)

DELETE LEFT & RIGHT REAR SILLS X, Z (4)

VEHICLE ATTITUDE

TEST NUMBER VC9094

TEST ENGINEER KOBYLARZ

ITEM NUMBER KJ6333

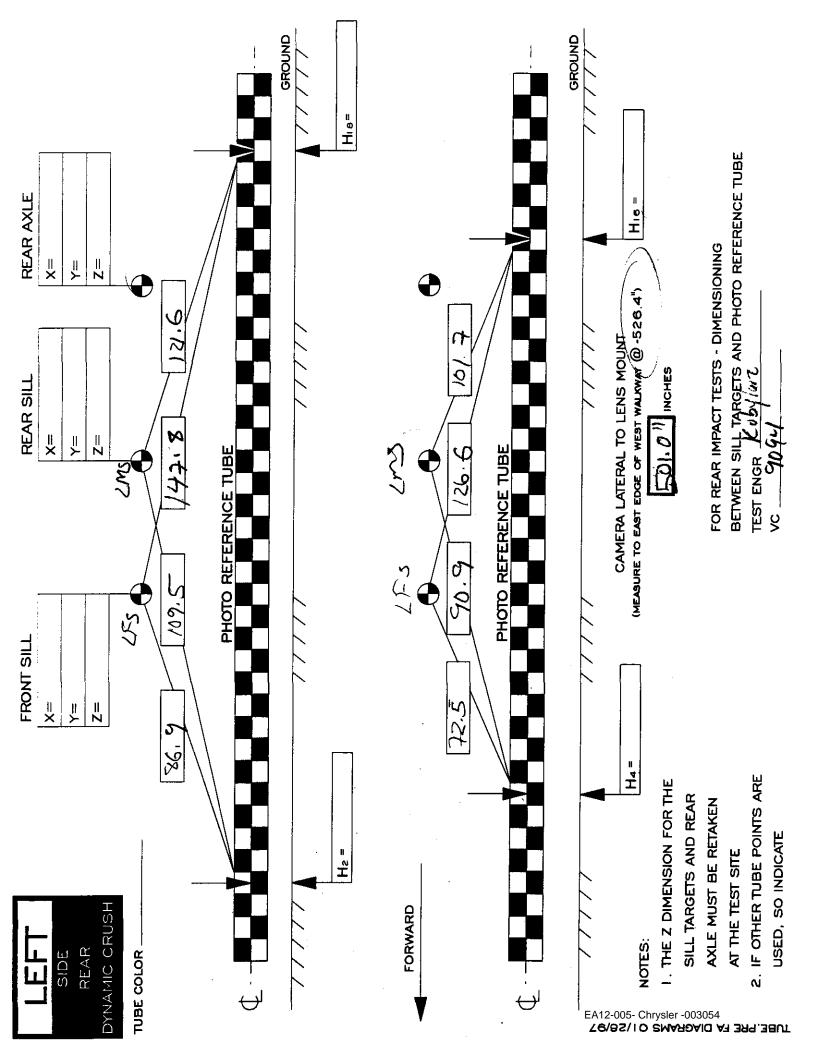
FENDER/WHEELWELL HEIGHTS _____ SILL HEIGHTS

AS RECEIVED

AS BUILT-UP

AS TESTED

LF	LR	RF	RR
32.3	33.4	32,4	33.3
32.2	31.8	32/	37.0



X, Y, Z DIMENSIONS

TEST NUMBER VC9094

TEST ENGINEER KOBYLARZ

ITEM NUMBER KJ6333 V.I.N. 1J8GL58K02W

TEST TYPE: 30 MPH REAR TYPE IV MOVING BARRIER IMPACT

	LOCATION	Х	Y	z	LOCATION	х	Y	Z
	BC1		0.0	xxxx	BC2		0.0	xxxx
	B1	0,5	- 17.9	xxxx	В2	0.5	18.7	xxxx
,	U1	101.2	- 18,5		U2	1012	18.4	//. D
1410	U3	123.1	- 7.8	18.4	U4	123.9	8.8	MY
	U5	1290	1.0	8.8	U6	141,0	18.9	21.6
	บ7	1411.1	- 19.8	22.0	U8	143.5	5.7	11.5
	U 9	143,1	- 513	7.6	U10	150.9	6,0	<i>ll</i> ·/
	U11	151.2	- 5.2	11.8	U12	156.0	19.3	725
	U13	154.9	- 2010	229				
			-		UC1	158.6	0	13.9
	LAP	57,7	50- - 21.1	49.6			i e	
	LFS	64.3	50- 31.9	14.3				
	LMS	94.5	50 31.8	14.4				
	LRW	132.9	50- -	13.8				
		 TMENICE ON	 	 				

TRAMMEL DIMENSIONS;

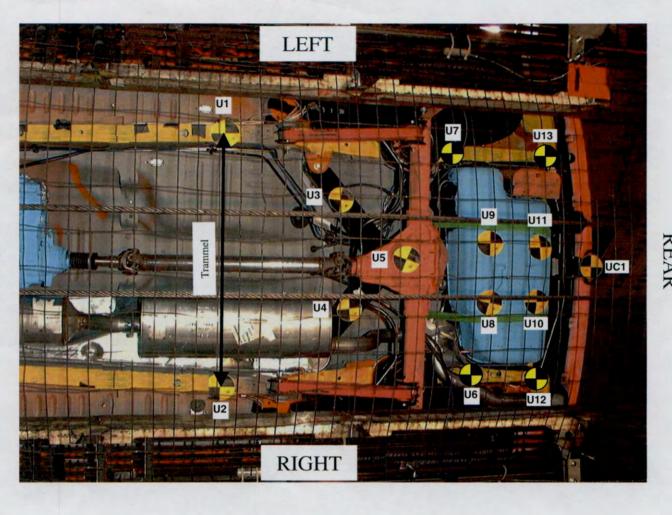
LFS-LMS PRE 29.87

U1-U2 36.85

; Item No.

REAR UNDERBODY FOR ALL REAR IMPACTS

Visibility Approved: DGL / 05/03/1999 Approved for CPG Use: GAB / 05/03/1999 Impact Analysis Engineer: DCC / 01/21/2000 DCC T/L: 722-1918; PAGER: 313-709-9150



FRONT

Guidelines to Placement of Critical Targets:

ITEM	COMMENTS
U1 & U2	5.5" IN FRONT OF FORWARD EDGE OF CONTROL ARM MOUNTING BRACKET.
U3 & U4	CENTER OF UPPER SWING ARMS.
U5	ON CENTER OF REAR DIFFERENTIAL
U12 & U13	END OF RAILS AT REAR BUMPER CROSSMEMBER
U6	14" FORE OF U12
U7	ON LEFT RAIL 16" FORWARD OF U13
U8,U9,U10	
& U11	IN SQUARE PATTERN, INSIDE STRAPS ON BOTTOM SURFACE OF THE FUEL TANK
UC1	CENTERED ON REAR BUMPER CROSSMEMBER

3/8/01

CONFIDENTIAL

Version: 5 EA12-005- Chrysler -003056 ast Revised: 09/18/00

Program: 02KJ

LEFT SIDE FOR ALL REAR IMPACTS

VC 9094 ; Item No.

Visibility Approved: DGL / 05/03/1999

Approved for CPG Use: GAB / 05/03/1999

Impact Analysis Engineer: DCC / 01/21/2000

DCC T/L: 722-1918; PAGER: 313-709-9150



Guidelines to Placement of Critical Targets:

ITEM	COMMENTS
LMS	BOTTOM OF B-POST ON SILL
LRS	30" FORE OF LMS
LRW	CENTER OF REAR-WHEEL

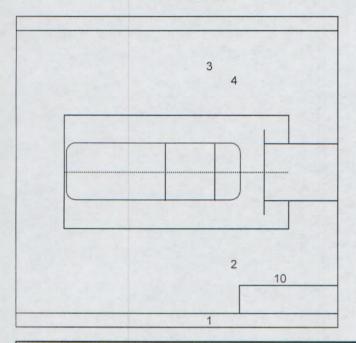
3-8-01

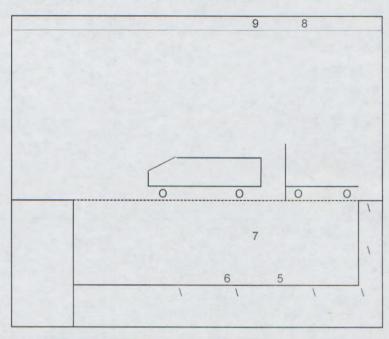
3/8/01

CONFIDENTIAL

Version: 5

EA12-005- Chrysler -003057 Last Revised: 09/18/00





TEST NUMBER:

VC9094

VEHICLE TYPE:

KJ

TEST TYPE:

30 MPH REAR TYPE IV IMPACT

REQUEST DATE: 03/08/01

TEST ENGINEER:

KOBYLARZ

	VIE	EW DESCRIPTION	CAM	LENS	LENS	LENS	F-	PNL	SKTCBL	MISC
#	F	A=ANALYSIS	S/N	FL	S/N	MFG.	STP			
1	A	LEFT SIDE OVERALL DYNAMIC CRUSH	428	18MM	116693	KIN	428			
2		LEFT - BARRIER TO C POST	1876	35MM	111302	KIN	1876			
3		RIGHT SIDE OVERALL	1890	18MM	107233	KIN				
4		RIGHT - BARRIER TO C POST	1891	35MM	111290	KIN	5.6 1/2			
5	A	PIT - SOUTH	432	13MM	13-7	cos	4 1/4			
6	A	PIT - NORTH	433	13MM	13-5	cos	4 1/4			
7		PIT - FILLER TUBES	277	ZOOM	#7	CAN				
8		CATWALK - REAR DOOR HANDLE	278	ZOOM	#8	CAN				
9		CATWALK - REAR DOOR HANDLE THRU EVENT	279	ZOOM	#9	CAN			-	
10	A	VELOCITY	286	100MM	B2088	LGT				
*										
		1 PRINT - STEFANGO								
									10101	

3/12/01

FUEL SYSTEM AND STATIC ROLLOVER SUMMARY

	BER KJ6333, TEST ENGINEER KOBYLARZ	
V.I.N. 1J8GL58K02W1	ST DATE 3/12/01, ROLL DATE 3/14/04	
TEST TYPE; 30 MPH REAR TYPE	IV MOVING BARRIER IMPACT	
	7 S.G. STODDARD SOLVENT, 17.5 GALLONS	
TEST SPEED 30-6 MPH,	TEST WEIGHT 4664 POUNDS.	
POST IMPACT LEAKAGE(OZ); A	IMPACT	
15	5 MIN	
NEXT	25 MIN	
POST TEST PRESSURE CHECK	/A	
ELECTRIC FUEL PUMP RUN	/A	
NO STATIC ROLL PERFOR	ED	
	1 1	
STATIC ROLL LEAKAGE WITH V	HICLE SIDE DOWN FIRST	
	KAGE LOCATIONS DURING STATIC ROLL	- T
ROLL TIME	TOTA	
0-90 1ST 5 MIN	0	*
1.52 POST 5 MIN	0	*
90-180 1ST 5 MIN	0	*
1.94 POST 5 MIN	0	*
180-270 1ST 5 MIN	0	+
POST 5 MIN	0	+
270-360 1ST 5 MIN	6	+
POST 5 MIN	0	*
* OUNCES IN 5 MINUTES, ** O	1/ / / / /	

EA12-005

CHRYSLER

12-13-2012

Enclosure 6C

Summary of 301 Crash Tests
Public

XJ FMVSS 301 Test History

Cherokee (XJ) Development Summaries Public

1984-2001 MY Cherokee (XJ) FMVSS 301 Test History

Victimal						
Montisque		Results	Purpose of Test	Vehicle Tested	Test Date	VC#
MAI1573 97/1982 3984 FMVSS 301 Development Test Successful		Successful	198X FMVSS 301 Development Test		8/21/1981	AM1458
MAI1573 97/1982 3984 FMVSS 301 Development Test Successful					. /- /	
AM1540 9/30/3982 9984 FMVS 301 Development Test successful 984 FMVS 301 Pre-Certification Test 984 FMVS 301 Pre-Cer			,			
AM1581 1/20/1983		Successful	1983 FMVSS 301 Development Test		6/7/1982	AM1533
AM1573 12/R/1982 384 FAWS 301 Pre-Certification Test Amsoccessful						
AM1581 1/20/1983 1/20/1984 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1984 1/20/1983 1/20/1983 1/20/1984 1/20/1983 1/20/1984 1/20/1983 1/20/1984 1/20/19		Successful	1984 FMVSS 301 Development Test		9/30/1982	AM1540
AM1581 1/20/1983 1/20/1984 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1983 1/20/1984 1/20/1983 1/20/1983 1/20/1984 1/20/1983 1/20/1984 1/20/1983 1/20/1984 1/20/19						
AM1581 2/20/1983 1984 XI - 20.2 gallon fuel tank 1984 FAWS 301 Pre-Certification Test 2000		Insuccessful	1984 FMVSS 301 Pre-Certification Test		12/8/1982	AM1573
AM1523					1 1	
AM1023						
1984 and 1985 compliance 1984 and 1985 compliance 1984 N. 20.2 gallon fuel tank 1984 FRWSS 301 Certification Test - relied on for 1984 Compliance 1984 Compliance 1984 Compliance 1984 FRWSS 301 Certification Test - relied on for 1984 Compliance 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test - relied on for 1984 FRWSS 301 Certification Test 1984 F				1984 XJ - 20.2 gallon fuel tank		
AM1635 4/27/1983 1984 XI - 20.2 gallon fuel tank 1994 FAW5S 301 Certification Test - relied on for 1984 Am1661 7/7/1983 1984 XI - 20.2 gallon fuel tank 1984 FAW5S 301 Certification Test - relied on for 1984 Am1665 7/13/1983 1984 XI - 20.2 gallon fuel tank - trailer hitch 1984 FAW5S 301 Certification Test - relied on for 1984 Am1665 7/13/1983 1984 XI - 20.2 gallon fuel tank - trailer hitch 1984 FAW5S 301 Certification Test - relied on for 1984 Am1669 7/13/1983 1984 XI - 20.2 gallon fuel tank - trailer hitch 1984 am1 1985 compliance 1984 FAW5S 301 Development Test 1984 FA					, ,	
1984 tompliance		Successful	1984 FMVSS 301 Development Test			AM1626
AM1661 7/7/1983 1984 XI - 20.2 gallon fuel tank 1984 FMVSS 301 Certification Text - relied on for class underfined) 1984 And 1985 compliance 1984		Successful		1984 XJ - 20.2 gallon fuel tank	4/27/1983	AM1635
1984 and 1985 compliance 1984 Kirv 52 2 gallon fuel tank - trailer hitch (class undefined) 1984 FMVSS 301 Certification Test - relied on for (class undefined) 1984 Kirv 53 001 Certification Test - relied on for (class undefined) 1984 Kirv 53 001 Certification Test - relied on for (class undefined) 1984 FMVSS 301 Development Test 1984 Kirv 53 001 Certification Test - relied on for (class undefined) 1984 FMVSS 301 Development Test 1984 Kirv 53 001 Development Test 1984 Kirv		C	'	ACCANI 20 2 cells of classic	7/7/4000	1111551
AM1665 7/13/1983		Successful		1984 XJ - 20.2 gallon fuel tank	///1983	AM1661
Class undefined 1984 and 1985 compliance 1984 and 1985 compliance 1984 FAVS 501 Certification Test - relied on for (class undefined) 1984 FAVS 501 Development Test 1984 FAVS 501 Developm		Successful		1984 XI - 20 2 gallon fuel tank - trailer hitch	7/13/1983	AM1665
Class undefined 1984 and 1985 compliance 1984 FMVSS 301 Development Test Jusuccessful 1985 FMVSS 301 Development Test Jusuccessful 1986 FMVSS 301 Development Test Jusuccessful 1987 FMVSS 301 Development Test Jusuccessful 1991 FMVFMVSS 301 Development		Juccessi u.		_	7, 13, 1303	72003
AM1671 6/28/1983 1984 FMVSS 301 Development Test Jusuccessful AM1679 6/30/1983 1984 XI - 20.2 gallon fuel tank - rear mounted 1984 FMVSS 301 Development Test Jusuccessful AM1696 10/5/1983 1984 XI - 20.2 gallon fuel tank - rear mounted 1984 FMVSS 301 Development Test Jusuccessful AM1700 11/10/1983 1984 FMVSS 301 Development Test Jusuccessful AM1701 12/7/1983 1984 FMVSS 301 Development Test Jusuccessful AM1702 11/11/1983 1984 FMVSS 301 Development Test Jusuccessful AM1711 12/7/1983 1984 FMVSS 301 Development Test Jusuccessful AM1733 11/12/1984 1984 FMVSS 301 Development Test Jusuccessful AM1736 2/10/1984 1984 XI - 20.2 gallon fuel tank - skid plate 1984 FMVSS 301 Development Test Jusuccessful AM1798 5/30/1984 1984 XI - 20.2 gallon fuel tank - skid plate 1984 FMVSS 301 Development Test Jusuccessful AM1829 9/20/1984 1984 FMVSS 301 Development Test Jusuccessful AM1848 11/28/1984 1984 FMVSS 301 Development Test Jusuccessful AM1848 11/28/1984 1984 FMVSS 301 Development Test Jusuccessful AM1848 11/28/1984 1985 FMVSS 301 Development Test Jusuccessful AM1880 2/26/1985 1986 XI - 20.2 gallon fuel tank 1985 FMVSS 301 Development Test Jusuccessful AM1888 5/21/1985 1986 XI - 20.2 gallon fuel tank 1986 MY FMVSS 301 Development Test Jusuccessful AM1922 5/23/1985 1986 XI - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986 MY FMVSS 301 Development Test Jusuccessful AM2028 3/17/1987 1987 XI fuel system proposed new filler tube 1987 production compliance 1989, 1990, 8 1991 MY FMVSS 301 Development Test Jusuccessful 243970 12/22/1988 1995 XI Jusit with a 1995 production fuel 1991 MY FMVSS 301 Development Test Jusuccessful 243970 12/22/1988 1995 XI Jusit with a 1995 production fuel 1991 MY FMVSS 301 Development Test Jusuccessful 243970 12/22/1988 1995 XI Jusit with a 1995 production fuel 1991 MY FMVSS 301 Development Test		Successful	·	,	7/13/1983	AM1669
AM1679			1984 and 1985 compliance	(class undefined)		
AM1689 10/6/1983 1984 XI - 20.2 gallon fuel tank - rear mounted swing away spare. 1984 FMVSS 301 Development Test Unsuccessful						
AM1696			'			
Swing away spare. 1984 FMVSS 301 Development Test Successful		Unsuccessful	1984 FMVSS 301 Development Test		10/6/1983	AM1689
AM1700		Unsuccessful	1984 FMVSS 301 Certification Test	_	10/25/1983	AM1696
AM1706				swing away spare.	/ /	
AM1711 12/7/1983 1984 FMVSS 301 Monitor Test Successful						
AM1723 1/12/1984 1984 FMVSS 301 Development Test buccessful AM1736 2/10/1984 1984 XJ - 20.2 gallon fuel tank - skid plate 1984 FMVSS 301 Development Test buccessful AM1798 5/30/1984 1984 XJ - 20.2 gallon fuel tank - skid plate 1984 FMVSS 301 Development Test buccessful AM1829 9/20/1984 1984 FMVSS 301 Development Test buccessful AM1845 12/20/1984 1984 PMVSS 301 Development Test buccessful AM1848 11/28/1984 1985 FMVSS 301 Development Test buccessful AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1985 FMVSS 301 Development Test buccessful AM1888 5/21/1985 1986 XJ - 20.2 gallon fuel tank 1986 FMVSS 301 Development Test buccessful AM1928 5/23/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986, 1987 1988, 1989, 1991, 1992, 1993, 8. 1994 Model Year Compliance AM1932 6/4/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. AM2028 3/17/1987 1987 XJ fuel system - 20 gallon fuel tank 1987 compliance test used for 1989, 1990, 8. 1991 model year Compliance AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel tank 1990, 1991, 1992, 1993, 8. 1994 compliance test used for 1989, 1990, 1991, 1992, 1993, 8. 1991 model year Compliance 1990, 1991, 1992, 1993, 8. 1991 model year Compliance 1990, 1991, 1992, 1993, 8. 1994 compliance 1991 model year Complian						
AM1736 2/10/1984 1984 XJ - 20.2 gallon fuel tank - skid plate 1984 FMVSS 301 Development Test Successful						
AM1762		Successful	1984 FMVSS 301 Development Test		1/12/1984	AM1723
AM1798 5/30/1984 1984 FMVSS 301 Development Test Insuccessful AM1829 9/20/1984 1984 FMVSS 301 Development Test Successful AM1845 12/20/1984 1984 FMVSS 301 Development Test Successful AM1848 11/28/1984 1985 FMVSS 301 Development Test Successful AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1986 MV FMVSS 301 Compliance Test used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, AM1928 5/23/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. 1986 MV FMVSS 301 Development Test Successful AM1932 6/4/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. 1986 MV FMVSS 301 Compliance Test used for 1986, 1987 & 1988 Model Year Compliance AM2028 3/17/1987 1987 XJ fuel system - 20 gallon fuel tank 1987 compliance test used for 1989, 1990, & Successful AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel tank 1987 production compliance 1989 Avg. 1991, 1992, 1993, & 1994 compliance AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel 1991 model year Compliance AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel 1991 model year Compliance AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel 1991 my FMVSS 301 Development Test 1980 my FMVSS 301		Successful	1984 FMVSS 301 Development Test		2/10/1984	AM1736
AM1829 9/20/1984 1984 FMVSS 301 Development Test 5uccessful AM1845 12/20/1984 1985 4FMVSS 301 Development Test 5uccessful AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1985 FMVSS 301 Development Test 5uccessful AM1888 5/21/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 8, 1994 Model Year Compliance AM1928 5/23/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. AM1932 6/4/1985 1985 XJ - 13.5 gallon fuel tank - new production 1986, 1987 & 1988 Model Year Compliance AM2028 3/17/1987 1987 XJ fuel system - 20 gallon fuel tank 1987 compliance test used for 1986, 1987 & 1988 Model Year Compliance AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel 1990, 1991, 1992, 1993, & 1994 compliance VC3597 3/25/1988 1994 1995 XJ fuel system proposed new filler tube tank 1990, 1991, 1992, 1993, & 1994 compliance VC3590 12/22/1988 1994 1995 MY FMVSS 301 Development Test 5uccessful 1991 MY FMVSS 301 Development Test 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compli		Successful	1984 FMVSS 301 Certification Test	1984 XJ - 20.2 gallon fuel tank - skid plate	4/3/1984	AM1762
AM1829 9/20/1984 1984 FMVSS 301 Development Test 5uccessful AM1845 12/20/1984 1985 4FMVSS 301 Development Test 5uccessful AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1985 FMVSS 301 Development Test 5uccessful AM1888 5/21/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 8, 1994 Model Year Compliance AM1928 5/23/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. AM1932 6/4/1985 1985 XJ - 13.5 gallon fuel tank - new production 1986, 1987 & 1988 Model Year Compliance AM2028 3/17/1987 1987 XJ fuel system - 20 gallon fuel tank 1987 compliance test used for 1986, 1987 & 1988 Model Year Compliance AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel 1990, 1991, 1992, 1993, & 1994 compliance VC3597 3/25/1988 1994 1995 XJ fuel system proposed new filler tube tank 1990, 1991, 1992, 1993, & 1994 compliance VC3590 12/22/1988 1994 1995 MY FMVSS 301 Development Test 5uccessful 1991 MY FMVSS 301 Development Test 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compliance relied on for the 5uccessful 1995 MVSS 301 Compli		Unsuccessful	1984 FMVSS 301 Development Test		5/30/1984	AM1798
AM1845 12/20/1984 1984 1984 1985 FMVSS 301 Development Test 5uccessful 1985 FMVSS 301 Development Test 5uccessful 1986 MY FMVSS 301 Development Test 5uccessful 1985 FMVSS 301 Development Test 5uccessful 1986 MY FMVSS 301 Development Test 5uccessful 1985 FMVSS 301 Development Test 5uccessful 1985 MY FMVSS 301 Development Test 5uccessful 1986 MY FMVSS 301 Development Test 5uccessful 1986 MY FMVSS 301 Development Test 5uccessful 1986 MY FMVSS 301 Development Test 5uccessful 1991 model year Compliance 1989 MY FMVSS 301 Development Test 5uccessful 1990 MY FMVSS 301 Development Test 5uccessful 1990 MY FMVSS 301 Development Test 5uccessful 1991 MY FMVSS 301 Development Test 5uccessful 1995 MY FMVSS 301 Develop		Successful				
AM1848 11/28/1984 1985 FMVSS 301 Development Test successful AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1985 FMVSS 301 Development Test Jnsuccessful AM1888 5/21/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, a 1994 Model Year Compliance Successful AM1928 5/23/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. 1985 FMVSS 301 Development Test successful AM2028 3/17/1987 1987 XJ fuel system - 20 gallon fuel tank 1987 compliance test used for 1989, 1990, & 1991 model year Compliance Successful AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel tank 1987 production compliance - relied on for 1989, and mounting at filler door area. 20 gallon fuel tank 1990, 1991, 1992, 1993, & 1994 compliance Successful VC3597 3/25/1988 1990 MY FMVSS 301 Development Test Jnsuccessful VC3860 4/4/1989 1991 MY FMVSS 301 Development Test Jusuccessful VC3918 6/15/1989 1991 MY FMVSS 301 Development Test Jnsuccessful VC3960 8/25/1984 1995 XJ built with a 1995 production fuel 1995 MVSS 301 Compliance relied on for		buccessiui	1964 Fivivas 301 Development Test		3/20/1984	AIVI1029
AM1848 11/28/1984 1985 FMVSS 301 Development Test successful AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1985 FMVSS 301 Development Test Jnsuccessful AM1888 5/21/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, a 1994 Model Year Compliance Successful AM1928 5/23/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. 1985 FMVSS 301 Development Test successful AM2028 3/17/1987 1987 XJ fuel system - 20 gallon fuel tank 1987 compliance test used for 1989, 1990, & 1991 model year Compliance Successful AM2041 3/17/1987 1987 XJ fuel system proposed new filler tube and mounting at filler door area. 20 gallon fuel tank 1987 production compliance - relied on for 1989, and mounting at filler door area. 20 gallon fuel tank 1990, 1991, 1992, 1993, & 1994 compliance Successful VC3597 3/25/1988 1990 MY FMVSS 301 Development Test Jnsuccessful VC3860 4/4/1989 1991 MY FMVSS 301 Development Test Jusuccessful VC3918 6/15/1989 1991 MY FMVSS 301 Development Test Jnsuccessful VC3960 8/25/1984 1995 XJ built with a 1995 production fuel 1995 MVSS 301 Compliance relied on for						
AM1880 2/26/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Development Test Used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 8 1994 Model Year Compliance Test used for 1986, 1987 MVSS 301 Development Test Used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 8 1994 Model Year Compliance 1985 FMVSS 301 Development Test Used for 1986, 1987 & 1985 MY FMVSS 301 Development Test Used for 1986, 1987 & 1988 Model Year Compliance 1989, 1991 model Year Compliance 1991 model Year Compliance 1991 model Year Compliance 1991 model Year Compliance 1990, 1991, 1992, 1993, & 1994 MY FMVSS 301 Development Test 1991 MY			'			
AM1888 5/21/1985 1986 XJ - 20.2 gallon fuel tank 1986 MY FMVSS 301 Compliance Test used for 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, & 1994 Model Year Compliance AM1928 5/23/1985 1985 XJ - 13.5 gallon fuel tank - new production intent engine mount. 1986 MY FMVSS 301 Development Test used for 1986, 1987 & 1988 Model Year Compliance Successful 1986, 1987 & 1988 Model Year Compliance Successful 1986, 1987 & 1988 Model Year Compliance Successful 1991 model year Compliance Successful 1990, 1991, 1992, 1993, & 1994 compliance Successful 1990, 1991, 1992, 1993, & 1994 compliance Successful 1990 MY FMVSS 301 Development Test Successful 1991 MY FMVSS 301 Development Test Successful 1995 MVSS 301 Compliance relied on for the Successful 1995 MVSS 301 Compliance relied on for the 1995 MVSS 301 Compliance relied on for the 1995 MVSS 301 Compliance 1995 MVSS 301		Successful	1985 FMVSS 301 Development Test		11/28/1984	AM1848
1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, & 1994 Model Year Compliance 1985 FMVSS 301 Development Test 5uccessful		Unsuccessful	1985 FMVSS 301 Development Test		2/26/1985	AM1880
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VC5211 8/2/1994 1995 XJ built with a 1995 production fuel 1995 MVSS 301 Compliance relied on for the Successful						
				1995 XJ built with a 1995 production fuel		
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20 gallon steel fuel tank.				20 gallon steel fuel tank.		
VC5241 9/21/1994 1997 MY FMVSS 301 Development Test Unsuccessful		Unsuccessful	1997 MY FMVSS 301 Development Test		9/21/1994	VC5241
VC5282 10/21/1994 1997 MY FMVSS 301 Development Test			1997 MV FMVSS 301 Development Test		10/21/1994	VC5282
VC5282 10/21/1994 1997 MY FMVSS 301 Development Test Unsuccessful		Unsuccessful	1237, WILLINIVSS SOT DEVELOPMENT LEST		10/21/1334	V C3202
EA12-005- Chrysler -013	Chrysler -013273					
VC5309 12/12/1994 1997 MY FMVSS 301 Development Test Successful		Successful	1997 MY FMVSS 301 Development Test		12/12/1994	VC5309

1984-2001 MY Cherokee (XJ) FMVSS 301 Test History

VC5383	2/20/1995	_	1997 MY FMVSS 301 Development Test	Successful
VC5682	11/4/1995		1997 MY FMVSS 301 Development Test	Successful
VC6062	8/20/1996	1997 XJ production intent 20 gallon plastic fuel tank. Fuel system production intent	1997 Compliance Test relied on for 1997, 1998, 1999, 2000.	Successful
VC6146	10/16/1996	1997 XJ factory trailer hitch installed. Fuel system production intent - 20 gallon plastic fuel tank.	1997 Compliance Test relied on for 1997, 1998, 1999, 2000 & 2001.	Successful

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Enclosure 6C

Summary of 301 Crash Tests
Public

KJ FMVSS 301 Test History

Liberty (KJ) Development Test Summaries Public 2002 - 2007 KJ VC Development Summary

VC#	Test Date	Vehicle Tested	Purpose of Test	Result
V0C7506	4/25/1999	_	2002 MY FMVSS 301 Development Test	Successful
VC07623	6/16/1999		2002 MY FMVSS 301 Development Test	Successful
VC07746	8/27/1999		2002 MY FMVSS 301 Development Test	Unsuccessful
VC08023	12/13/1999		2002 MY FMVSS 301 Development Test	Successful
VC08025	12/13/1999		2002 MY FMVSS 301 Development Test	Unsuccessful
VC08268	8/3/2000		2001 MY FMVSS 301 Development Test	Successful
VC08459	5/17/2000		2001 MY FMVSS 301 Development Test	Successful
VC08945	12/5/2000		2001 MY FMVSS 301 Development Test	Successful
VC09026	1/29/2001	2002 prototype KJ with design intent swing gate handle and fuel lines. Production intent exhaust flange	2001 MY FMVSS 301 Compliance Test	Successful
VC09029	2/27/2001		2002 MY FMVSS 301 Development Test	Successful
VC09089	3/6/2001		2002 MY FMVSS 301 Development Test	Successful
VC09094	3/12/2001	2002 prototype KJ with design intent swing gate handle and fuel lines. Production intent exhaust flange	2002 MY FMVSS 301 Compliance Test	Successful
VC09559	2/6/2002		2002 MY FMVSS 301 Development TEST	Successful
VC09935	6/21/2002		2003 MY FMVSS 301 Development TEST	Unknown
/C10306	11/14/2002		2003 MY FMVSS 301 Development TEST	Successful
/C10307	11/14/2002		2003 MY FMVSS 301 Development TEST	Successful
VC10445	1/30/2003		2003 MY FMVSS 301 Development TEST	Successful
VC10499	2/17/2003		2004 MY FMVSS 301 Development TEST	Successful
VC10546	3/20/2003	2004 production intent KJ	2004 MY FMVSS 301 Compliance Test	Successful
VC10771	6/6/2003		2004 MY FMVSS 301 Development TEST	Successful
VC11439	2/6/2004		2005 MY FMVSS 301 Development TEST	Successful
VC11444	3/17/2004		2005 MY FMVSS 301 Development TEST	Successful
VC11711	5/13/2004	2005 production intent KJ	2005 MY FMVSS 301 Compliance Test	Successful
VC11790	6/4/2004	2005 production intent KJ	2005 MY FMVSS 301 Compliance Test	Successful

EA12-005

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12-13-2012

Enclosure 6F
FARS and NAS Analyses
FARS Data Analysis Dec 2012

FARS Data Analysis

SUVs and Cars

Contents

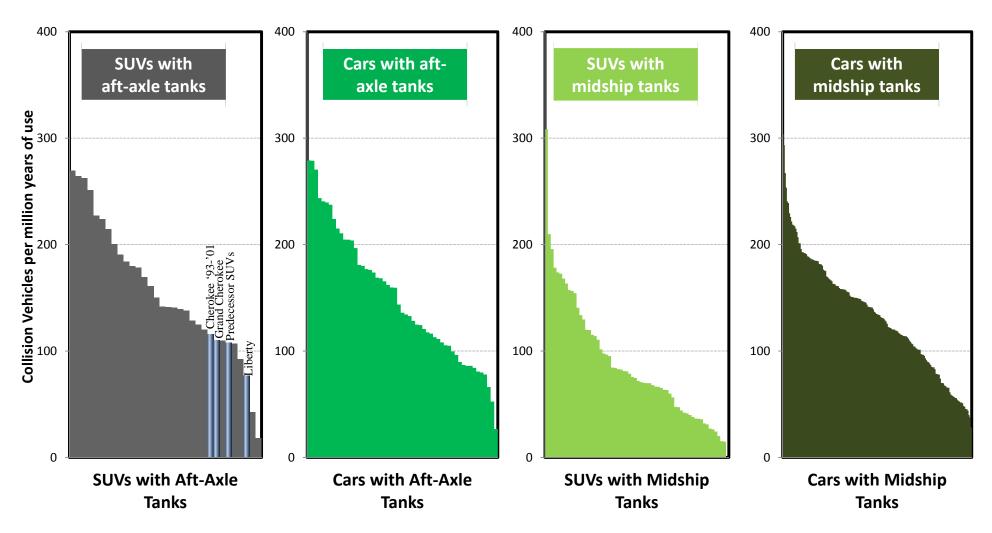
- Crash rates defined as collision vehicles per million years of use (million registered vehicle years), based on:
 - FARS data 1984-2010
 - RL Polk vehicle registration data
 - 95% confidence interval calculations about rates
- Rates of crashes of different types, rank-ordered by individual model
- Average rates of crashes of different types, grouped by vehicle type, tank location and subject vehicle. Includes confidence intervals.
- Rates of fatal rear crashes accompanied by fire, rank-ordered by model (including confidence intervals)
 - 100 models having the highest rates
 - SUVs and Passenger Cars with aft-axle fuel tanks
 - SUVs with aft-axle or midship fuel tanks
 - SUVs with aft-axle fuel tanks

Rates Rank-Ordered by Model

- Models grouped according to vehicle type and tank location
 - SUV vs. Passenger car
 - Aft-axle vs. Midship tank location
- Rates are per million years of use (million registered vehicle years)
 - Vehicles in a collision with an occupant fatality
 - Vehicles in a collision with an occupant fatality accompanied by fire
 - Rear crashes with an occupant fatality
 - Rear crashes with an occupant fatality accompanied by fire
 - Rear crashes with an occupant fatality and fire as the Most Harmful Event (MHE)
 - Rear crashes (fatality in any vehicle in the crash) accompanied by fire
 - Rear crashes (fatality in any vehicle in the crash) with fire as the MHE

Rates of Fatal Collisions

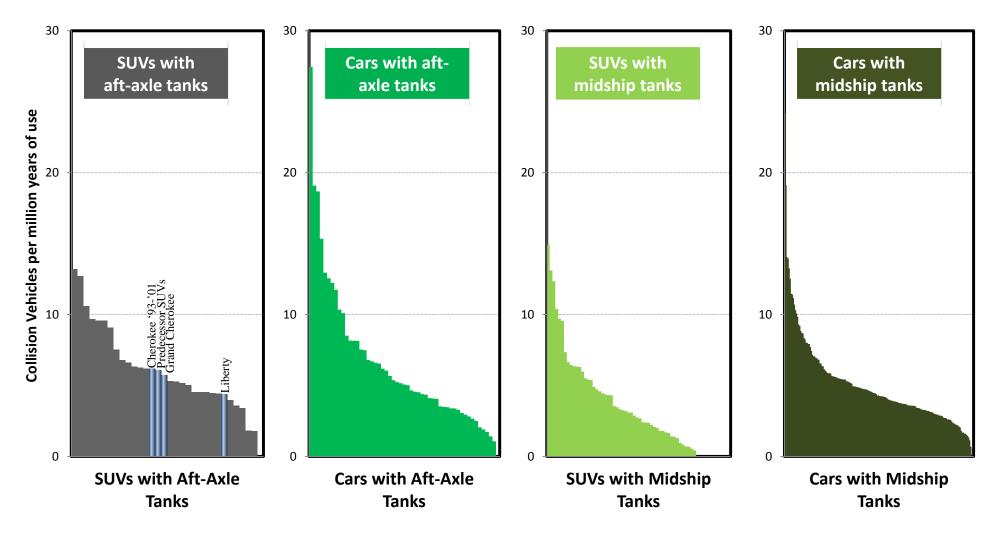
Vehicles involved in any collision with occupant fatality, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 represents a different model of vehicles. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Cherokee 1993-2004, and Cherokee 1993-2004

Rates of Fatal Collisions with Fire

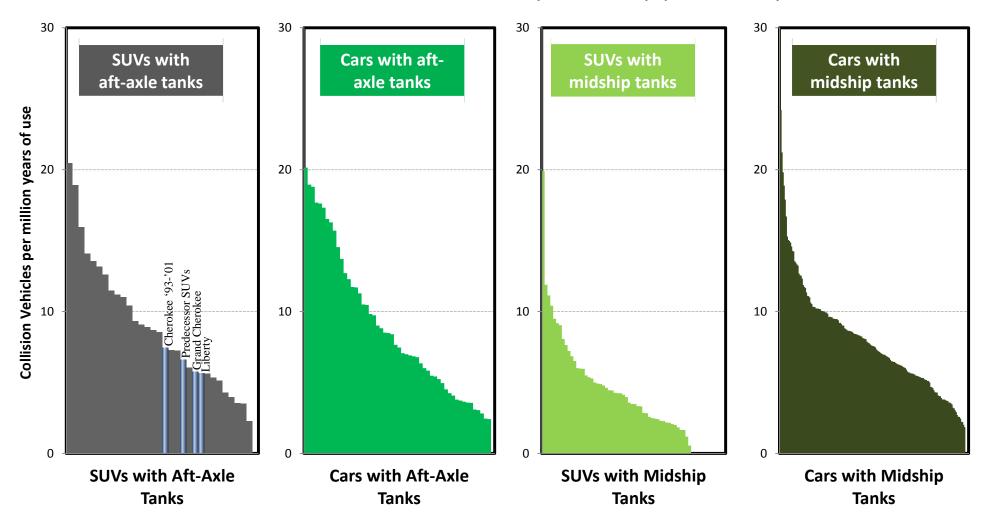
Vehicles involved in any collision with occupant fatality and post-collision fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2008 redected SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes collision vehicles with an occupant fatality where the vehicle experienced a post-collision fire.

Rates of Rear Fatal Collisions

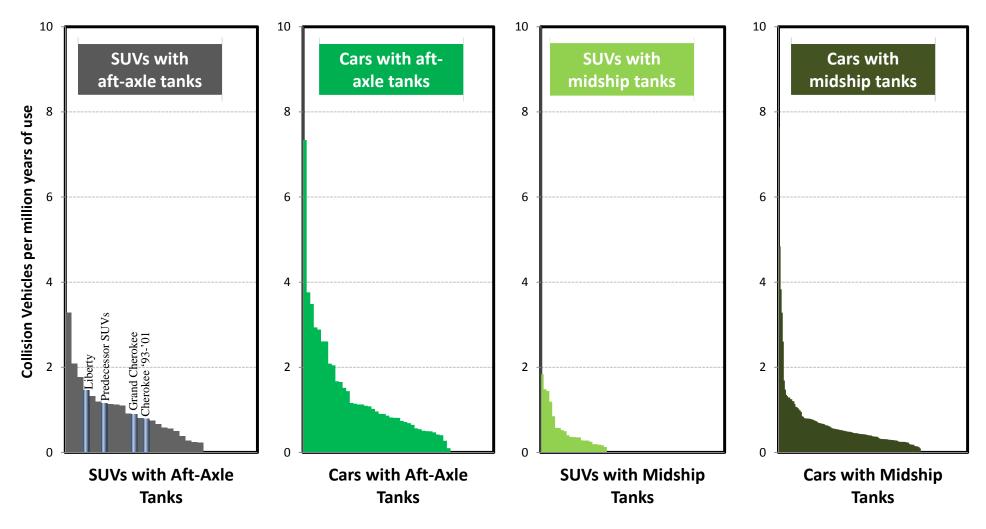
Vehicles involved in a rear collision with occupant fatality, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002 APP 2005 APP 2005 APP 2005 APP 2005 APP 2005 APP 2005 APP 2005. FARS data 1984-2010. Registration data from RL Polk. Rear collision includes either initial or principal impact to clock points 5, 6, or 7. Includes collision vehicles with an occupant fatality.

Rates of Rear Fatal Collisions with Fire

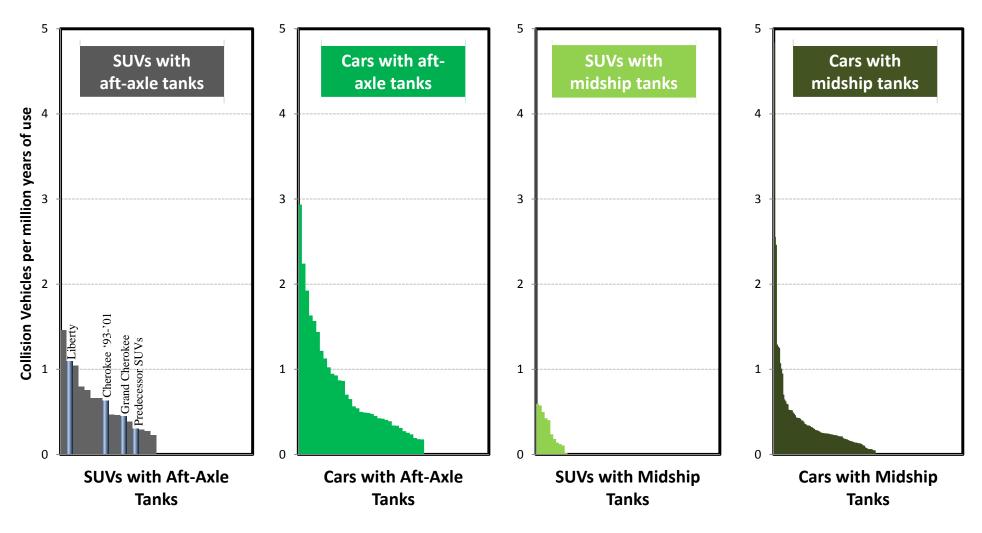
Vehicles involved in a rear collision with occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002 2003 represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Rear collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire.

Rates of Rear Fatal Collisions with MHE Fire

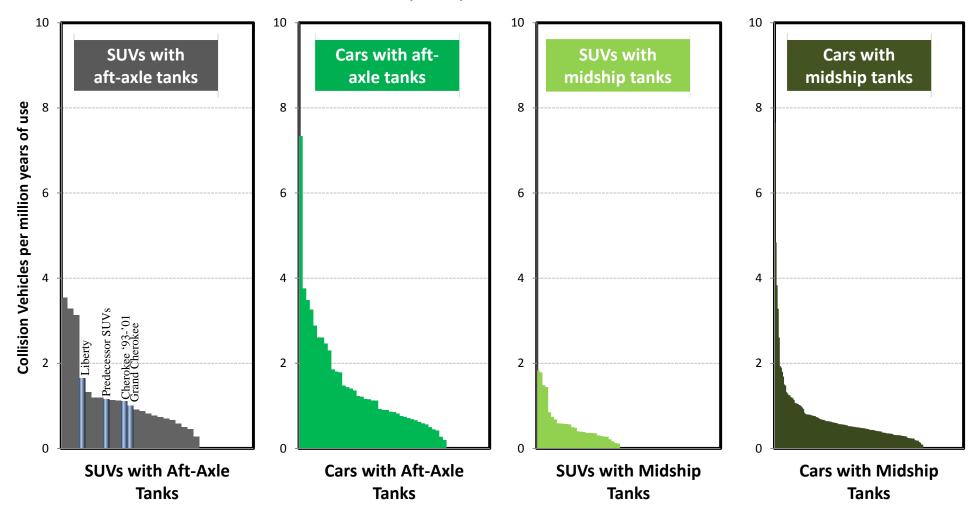
Vehicles involved in a rear collision with occupant fatality and most harmful event fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Predecessor SUVs are Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data/romglechylsieRegi4839 collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire as the most harmful event.

Rates of Rear Collisions with Fire

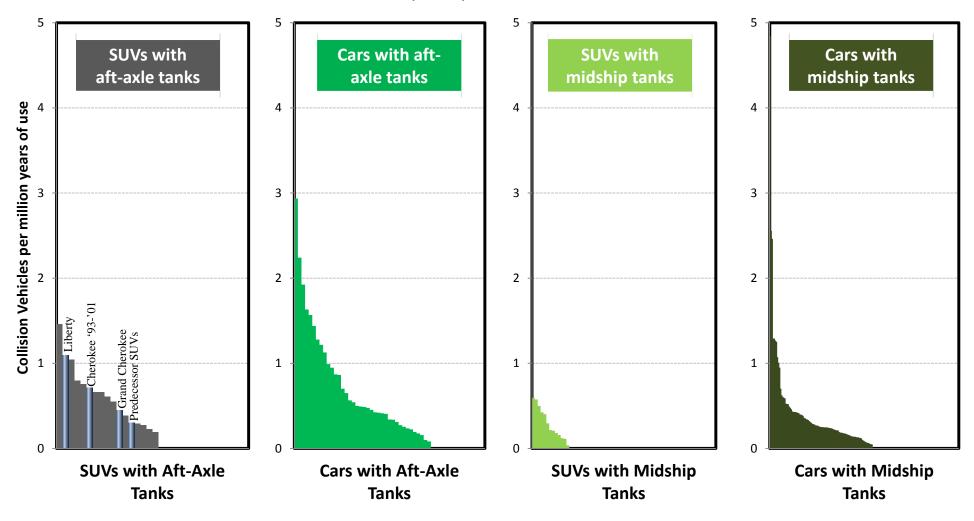
Vehicles involved in a rear collision with post-collision fire, per million years of use Fatality in any vehicle in the crash



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2005, Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2001, and Liberty 2002-2003 Prefigures Subject SUVs are: Grand Cherokee 1993-2005, Cherokee 1993-2001, and Cherokee 1993-2001, and Cherokee 1993-2001, and Cherokee 1993-2003 Prefigures Subject Subje

Rates of Rear Collisions with MHE Fire

Vehicles involved in a rear collision with fire as MHE, per million years of use Fatality in any vehicle in the crash



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Predecessor SUVs are Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from the Collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles where the vehicle experienced a post-collision fire as the most harmful event. Fatality in any vehicle in the crash.

Conclusions Vehicles Rank Ordered and Grouped

- Within the four different groupings of vehicles, for each category of collision type studied*
 - Vehicle models have differences in rates that vary markedly, sometimes by more than an order of magnitude
 - The Subject SUV Design vehicles** have rates that are neither the highest nor the lowest within their grouping

^{*} Groupings of vehicles are: SUVs with aft-axle fuel tanks, Passenger Cars with aft-axle fuel tanks, SUVs with midship fuel tanks, and Passenger Cars with midship fuel tanks. Categories of collision types include a) collision vehicles with an occupant fatality, b) collision vehicles with an occupant fatality accompanied by fire, c) vehicles in a rear collision with occupant fatality, d) vehicles in a rear collision with occupant fatality accompanied by fire, e) vehicles in a rear collision with occupant fatality and MHE fire, f) vehicles in a rear collision accompanied by fire (fatality in any vehicle in the crash), and g) vehicles in a rear collision accompanied by MHE fire (fatality in any vehicle in the crash).

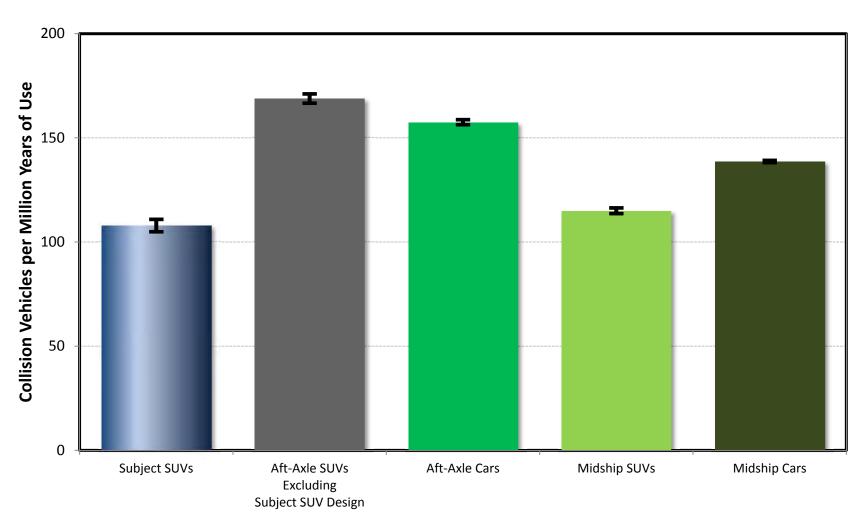
^{**} Subject SUVs are the 1993-2004 Grand Cherokee, 1993-2001 Cherokee, and 2002-2007 Liberty. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are Jeep Cherokee 1984-1992 and Wagoneer 1984-1990.

Grouped Rates of Crashes

- Rates grouped by vehicle type and tank location, shown with confidence intervals
 - SUV vs. Passenger car
 - Aft-Axle vs. Midship tank location
 - Subject SUVs
 - Grand Cherokee 1993-2004
 - Cherokee 1993-2001
 - Liberty 2002-2007
 - Subject SUV Design vehicles
 - Subject SUVs
 - Cherokee 1984-1992 and Wagoneer 1984-1990
 - Rates for SUVs with aft-axle tanks do not include Subject SUV Design vehicles
 - Rates shown with confidence intervals
- Collision types
 - Fatal collisions
 - Fatal collisions with fire
 - Rear fatal collisions
 - Rear fatal collisions with fire
 - Rear fatal collisions with MHE fire

Rates of Fatal Collisions

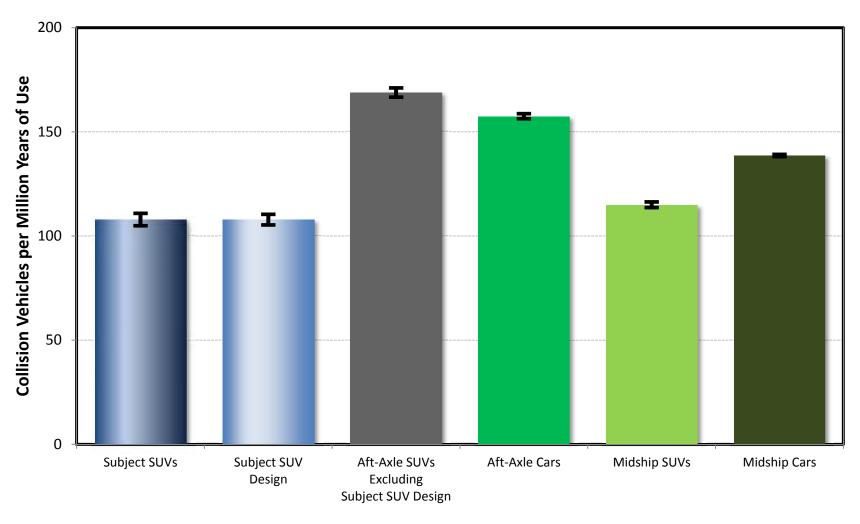
Vehicles involved in any collision with occupant fatality, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as Predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Otherweliates Careston 4844 years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes collision vehicles with an occupant fatality. Rates are calculated as combined collision vehicles divided by combined million years of use. Vertical black lines are 95% confidence intervals.

Rates of Fatal Collisions

Vehicles involved in any collision with occupant fatality, per million years of use



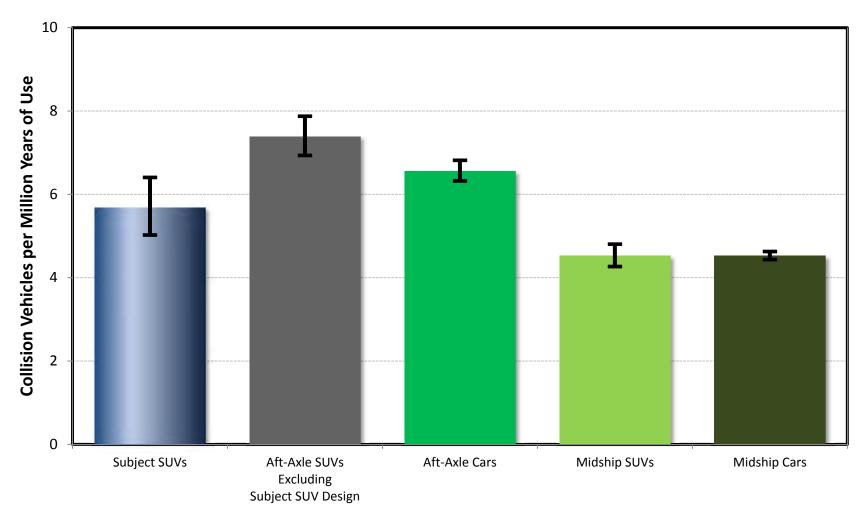
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Conclusions Rates of Collisions with Occupant Fatality

- Collectively, the Subject SUVs and Subject SUV Design vehicles have rates of collisions with occupant fatality that are statistically significantly* better than the average rates for the other groups of vehicles.
- The different groupings of vehicles have average rates that are statistically significantly* different from each other.

Rates of Fatal Collisions with Fire

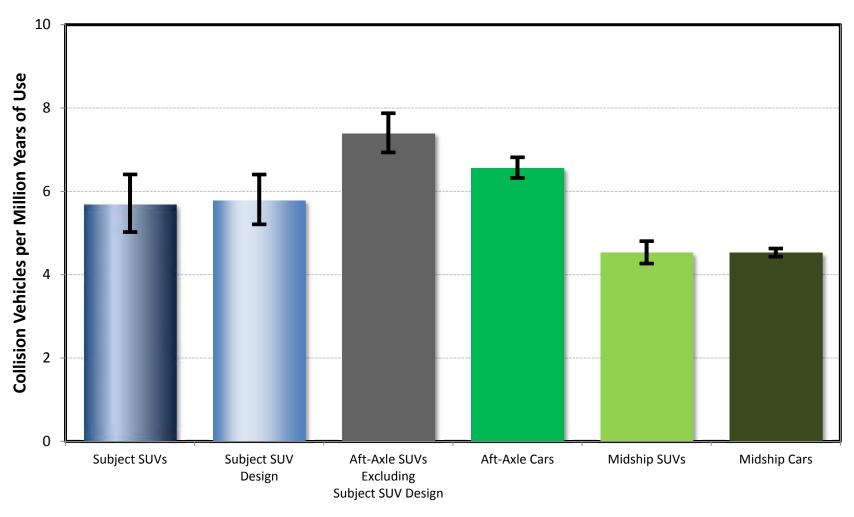
Vehicles involved in any collision with occupant fatality and post-collision fire, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other representation of the predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1

Rates of Fatal Collisions with Fire

Vehicles involved in any collision with occupant fatality and post-collision fire, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire. Rates are calculated as combined collision vehicles divided by combined million years of use. Vertical black lines are 95% confidence intervals.

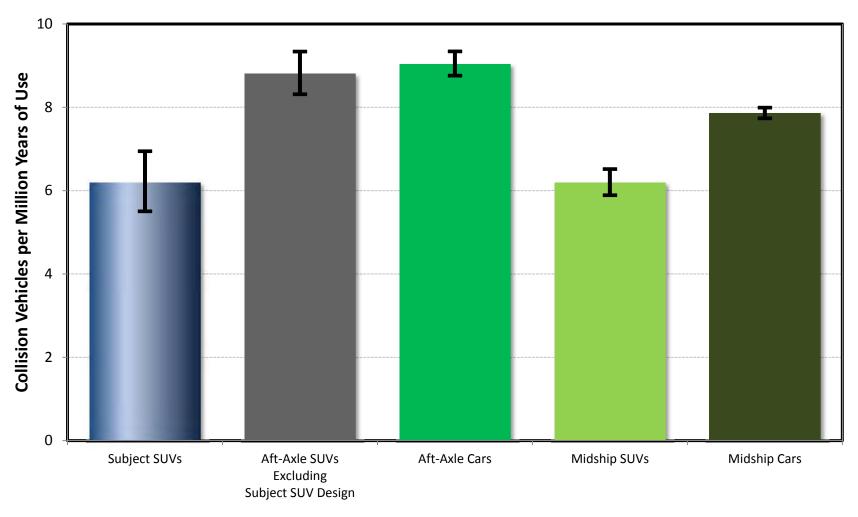
Conclusions

Rates of Collisions with Occupant Fatality and Fire

- Collectively, the Subject SUVs and Subject SUV Design vehicles have rates of collision with occupant fatality accompanied by fire that are statistically significantly* better than the average rate for the other aft-axle SUVs.
- The rates of collision with occupant fatality accompanied by fire for Cars and SUVs with midship fuel tanks are statistically significantly* better than the average rates for the other groupings of vehicles.

Rates of Fatal Rear Collisions

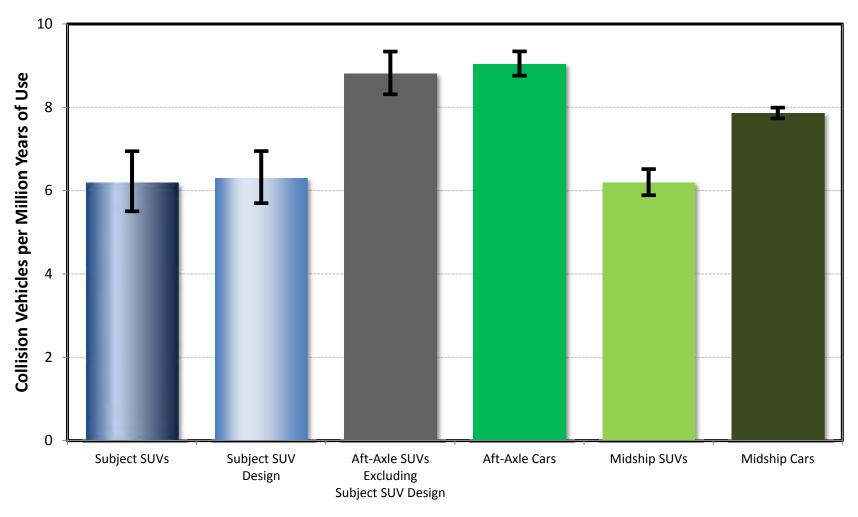
Vehicles involved in a rear collision with occupant fatality, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality Region light in the region of the reg

Rates of Fatal Rear Collisions

Vehicles involved in a rear collision with occupant fatality, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality Region light establishment of principal impact at clock points 5, 6, or 7. Rates are calculated as combined collision vehicles divided by combined million years of use. Vertical black lines are 95% confidence intervals.

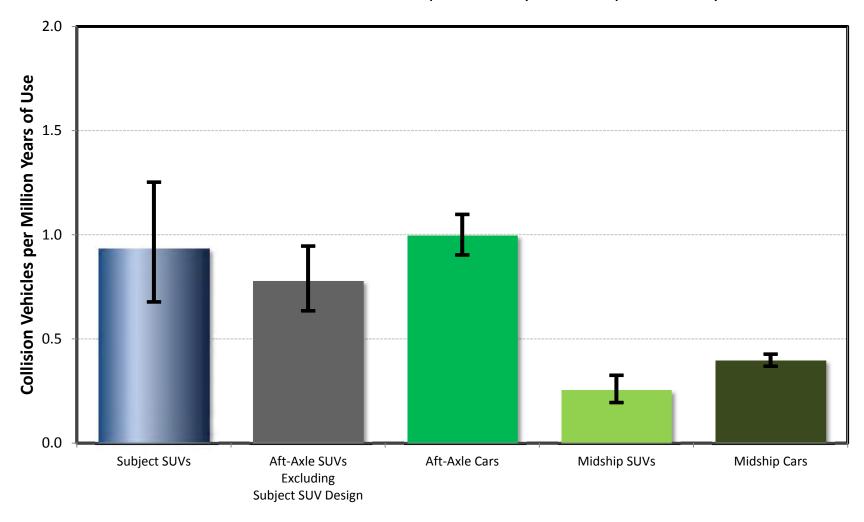
Conclusions

Rates of Rear Collisions with Occupant Fatality

- Collectively, the Subject SUVs and Subject SUV Design vehicles have rates of rear collision with occupant fatality that are statistically significantly* better than the average rates for SUVs with aft-axle tanks, passenger cars with aft-axle tanks, and passenger cars with midship tanks.
- Collectively, the Subject SUVs and Subject SUV Design vehicles have rates of rear collision with occupant fatality that are <u>not</u> statistically significantly* different from the average rate for SUVs with midship fuel tanks.

Rates of Fatal Rear Collisions with Fire

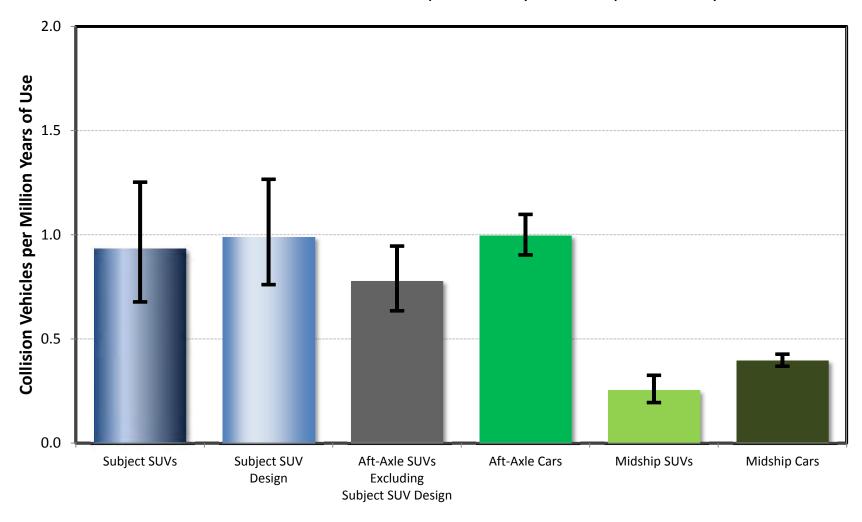
Vehicles involved in a rear collision with occupant fatality and fire, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved

Rates of Fatal Rear Collisions with Fire

Vehicles involved in a rear collision with occupant fatality and fire, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality purpose the registration data from RL Polk. Includes vehicles involve

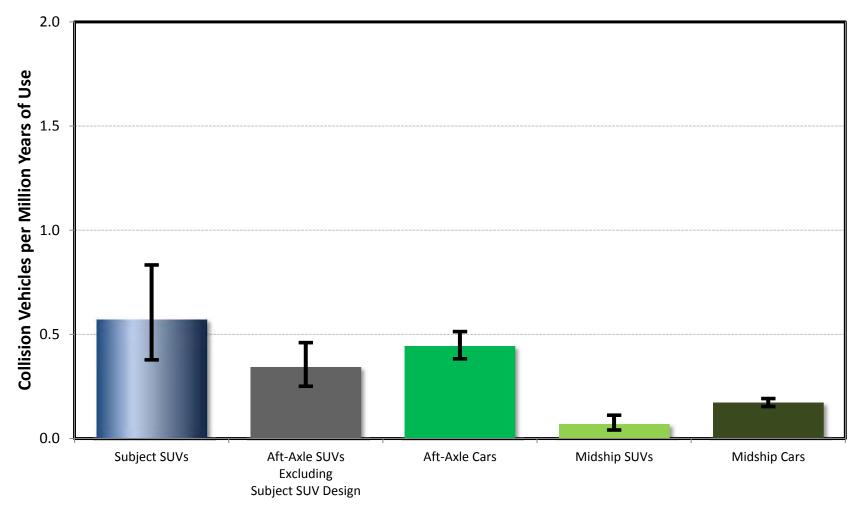
Conclusions

Rates of Rear Collisions with Occupant Fatality and Fire

 Collectively, the Subject SUVs and Subject SUV Design vehicles have rates of rear collision with occupant fatality accompanied by fire that are <u>not</u> statistically significantly* different from the average rates for SUVs with aft-axle tanks or passenger cars with aft-axle tanks.

Rates of Fatal Rear Collisions with MHE Fire

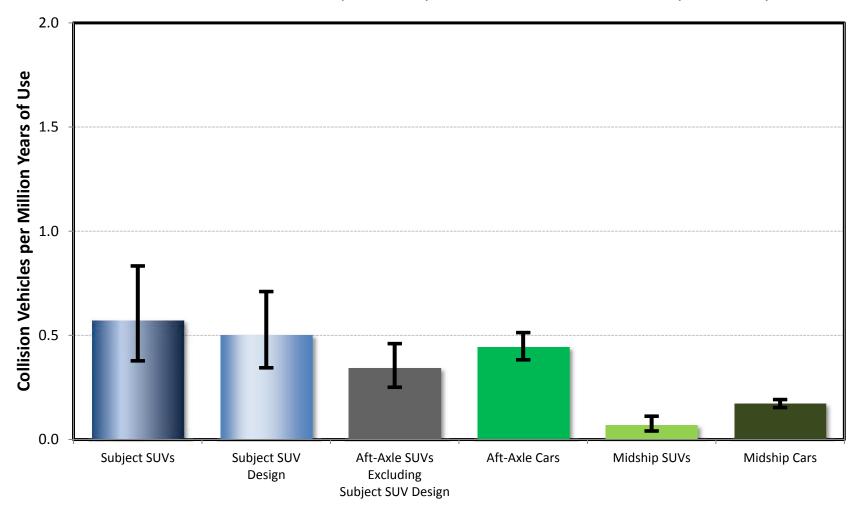
Vehicles involved in a rear collision with occupant fatality and fire as most harmful event, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality whereothe well-leading experienced a post-collision fire as the most harmful event. Rear collision includes either initial or principal impact at clock points 5, 6, or 7. Rates are calculated as combined collision vehicles divided by combined million years of use. Vertical black lines are 95% confidence intervals.

Rates of Fatal Rear Collisions with MHE Fire

Vehicles involved in a rear collision with occupant fatality and fire as most harmful event, per million years of use



Notes: Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Includes vehicles involved in a rear collision with an occupant fatality whereothe well-leading experienced a post-collision fire as the most harmful event. Rear collision includes either initial or principal impact at clock points 5, 6, or 7. Rates are calculated as combined collision vehicles divided by combined million years of use. Vertical black lines are 95% confidence intervals.

Conclusions

Rates of Rear Collisions with Occupant Fatality and MHE Fire

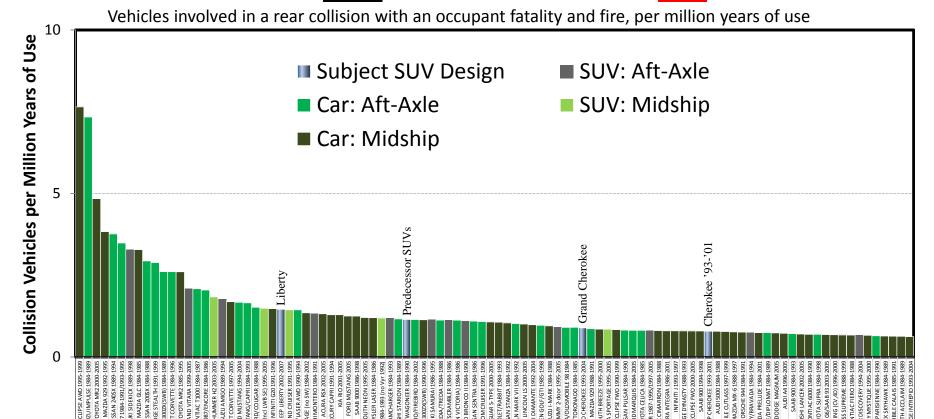
 Collectively, the Subject SUVs and Subject SUV Design vehicles have rates of rear collision with occupant fatality accompanied by fire as the most harmful event that are <u>not</u> statistically significantly* different from the average rates for SUVs with aft-axle tanks or passenger cars with aft-axle tanks.

Fatal Rear Collisions with Fire

Rank Ordered by Model

- 100 Vehicles having the highest rates of fatal rear collisions accompanied by fire
 - Independent of tank location or vehicle type
 - With confidence intervals
- SUVs and Passenger Cars with aft-axle tanks
 - With counts of crashes
 - With confidence intervals
- SUVs with aft-axle or midship tanks
 - With counts of crashes
 - With confidence intervals
- SUVs with aft-axle tanks
 - With counts of crashes
 - With confidence intervals

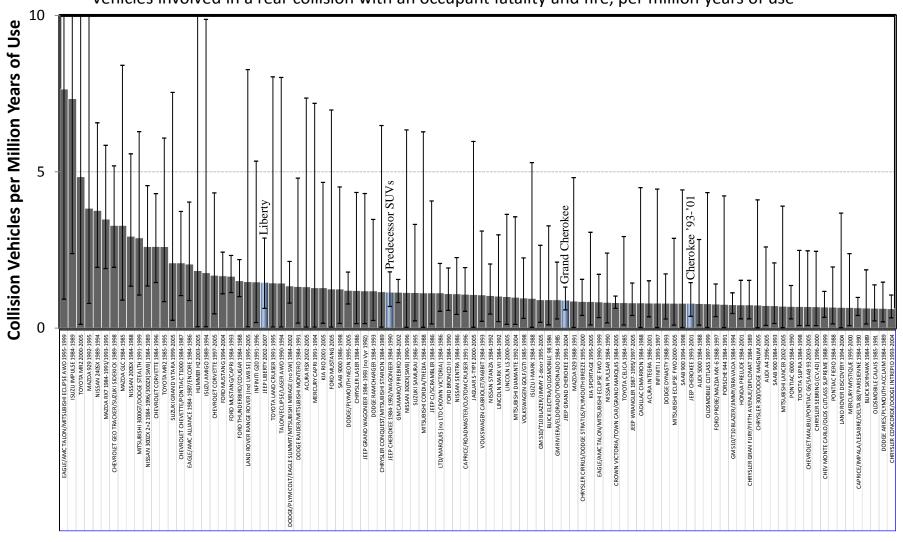
100 Vehicles Having the Highest Rates of Rear Fatal Collisions With Fire



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1990. Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Rear collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire.

100 Vehicles Having the Highest Rates of Rear Fatal Collisions With Fire

Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from the Leaf to collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire. Vertical lines are 95% confidence intervals about the rates.

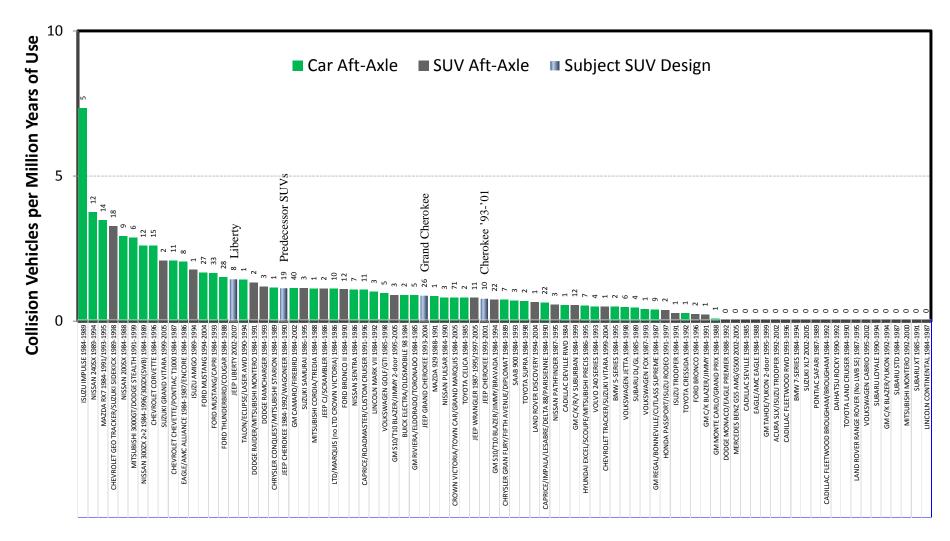
Conclusions

Comparison of Rates of <u>Rear</u> Collisions with Occupant Fatality and <u>Fire</u> by Model, Vehicle Type and Tank Location

- The 100 vehicle models having the highest rates of rear collisions with occupant fatality accompanied by fire include SUVs and passenger cars with aft-axle tanks, as well as SUVs and passenger cars with midship tanks. Many such models have rates that are higher than the Subject SUVs or Predecessor SUVs.
- The Subject SUVs and Predecessor SUVs have rates of rear collisions with occupant fatality accompanied by fire that are <u>not</u> statistically significantly* different from most or all of the other 96 models in the list of 100 vehicle models having the highest rates.

Vehicles with Aft-Axle Tanks: Rates of Rear Fatal Collisions With Fire

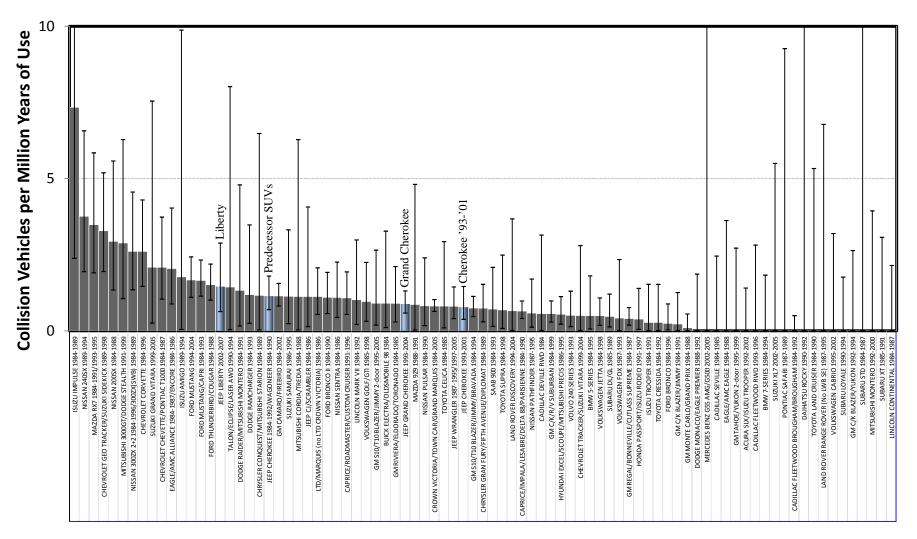
Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Rear collision includes takings in includes takings in includes the principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire. Numbers above bars are counts of fatal rear fires.

Vehicles with Aft-Axle Tanks: Rates of Rear Fatal Collisions With Fire

Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from Suveries and Suveries are supported by Support Sup

Conclusions

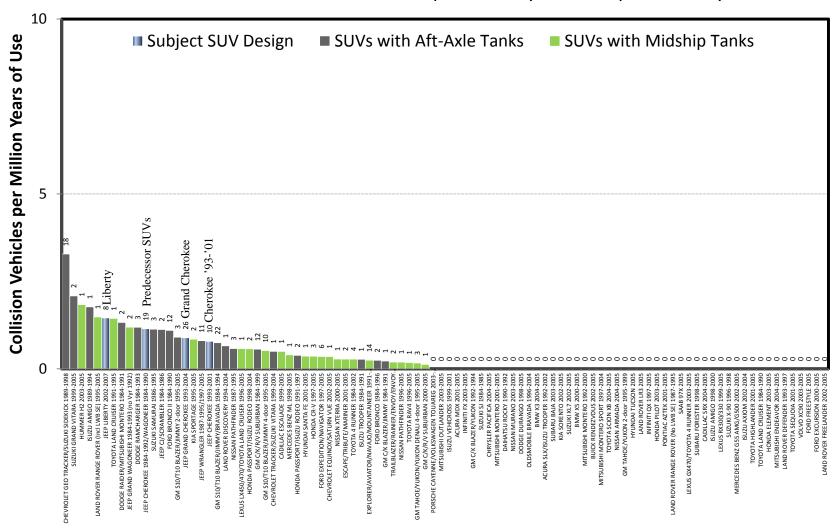
Comparison of Rates of <u>Rear</u> Collisions with Occupant Fatality and <u>Fire</u> by Model and Vehicle Type:

Vehicles with Aft-Axle Tanks

- The Subject SUVs and Predecessor SUVs do not have the highest rates of rear collisions with occupant fatality accompanied by fire when compared with other SUVs or Passenger Cars with aft-axle tanks.
- The Subject SUVs and Predecessor SUVs have rates of rear collisions with occupant fatality accompanied by fire that are not statistically significantly* different from most or all of the SUVs or Passenger Cars with aft-axle tanks.

All SUVs: Rates of Rear Fatal Collisions With Fire

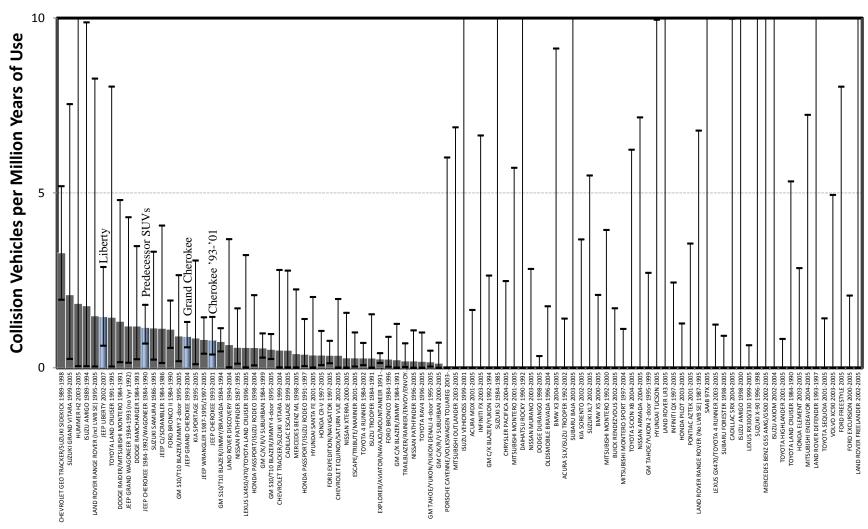
Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Rear collision includes with an occupant fatality where the vehicle experienced a post-collision fire. Numbers above bars are counts of fatal rear fires.

All SUVs: Rates of Rear Fatal Collisions With Fire

Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from SL Enlysle Personal Collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire. Vertical lines are 95% confidence intervals about the rates.

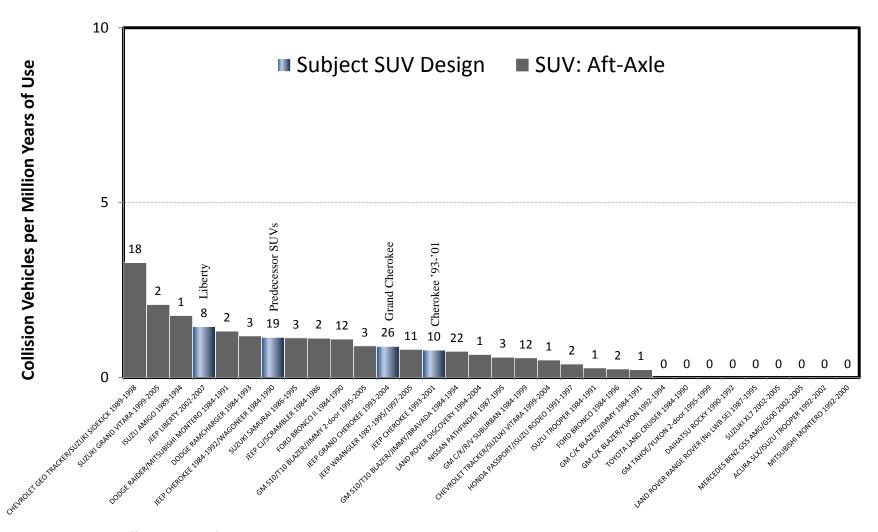
Conclusions

Comparison of Rates of <u>Rear</u> Collisions with Occupant Fatality and <u>Fire</u> by Model: SUVs Only

- The Subject SUVs and Predecessor SUVs do not have the highest rates of rear collisions with occupant fatality accompanied by fire when compared with other SUVs.
- The Subject SUVs and Predecessor SUVs have rates of rear collisions with occupant fatality accompanied by fire that are not statistically significantly* different from most or all of the other SUVs.

SUVs with Aft-Axle Tanks: Rates of Rear Fatal Collisions With Fire

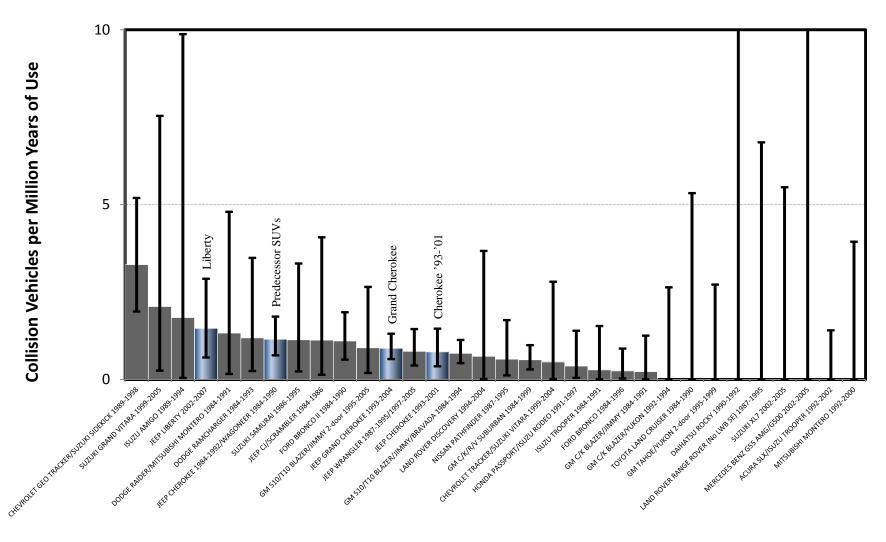
Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Subject SUV Design vehicles include the Subject SUVs as well as predecessor SUVs sharing the same fuel tank configuration. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from RL Polk. Rear collision includes either: Oitigal or 1984-2010 principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire. Numbers above bars are counts of fatal rear fires.

SUVs with Aft-Axle Tanks: Rates of Rear Fatal Collisions With Fire

Vehicles involved in a rear collision with an occupant fatality and fire, per million years of use



Notes: Each bar represents a different model of vehicle. Subject SUVs are: Grand Cherokee 1993-2004, Cherokee 1993-2001, and Liberty 2002-2007. Predecessor SUVs are: Jeep Cherokee 1984-1992 and Wagoneer 1984-1990. Other vehicles are model years 1984-2005. FARS data 1984-2010. Registration data from SL Enlysle Personal Collision includes either initial or principal impact to clock points 5, 6, or 7. Includes vehicles with an occupant fatality where the vehicle experienced a post-collision fire. Vertical lines are 95% confidence intervals about the rates.

Conclusions

Comparisons of Rates of <u>Rear</u> Collisions with Occupant Fatality and <u>Fire</u> by Model SUVs with Aft-Axle Tanks

- The Subject SUVs and Predecessor SUVs do not have the highest rates of rear collisions with occupant fatality accompanied by fire when compared with other SUVs with aft-axle tanks.
- The Subject SUVs and Predecessor SUVs have rates of rear collisions with occupant fatality accompanied by fire that are not statistically significantly* different from most or all of the other SUVs with aft-axle tanks.

EA12-005

CHRYSLER

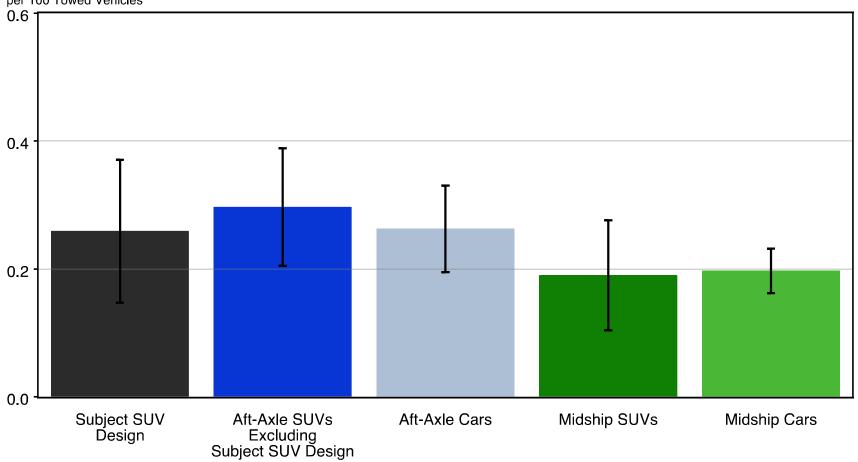
12-13-2012

Enclosure 6F
FARS and NAS Analyses
NASS Data Analysis Dec 2012

NASS GES

Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage





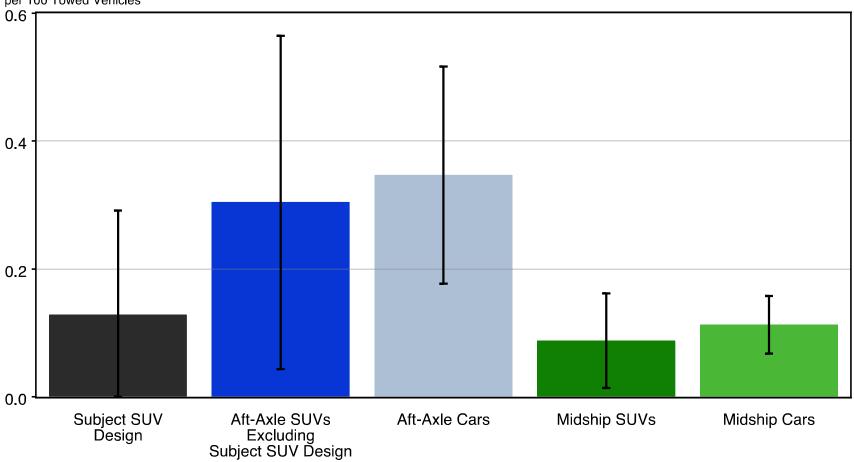
-2010

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

EA12-005- Chrysler -034873

Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage





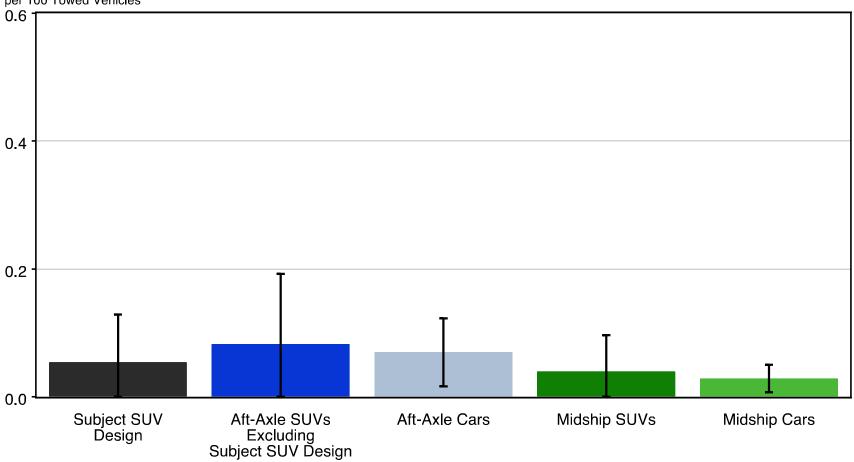
-2010

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

EA12-005- Chrysler -034874

Rates of Most Harmful Event Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage





Source: NASS GES 1990-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 Jeep Cherokee.

Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.

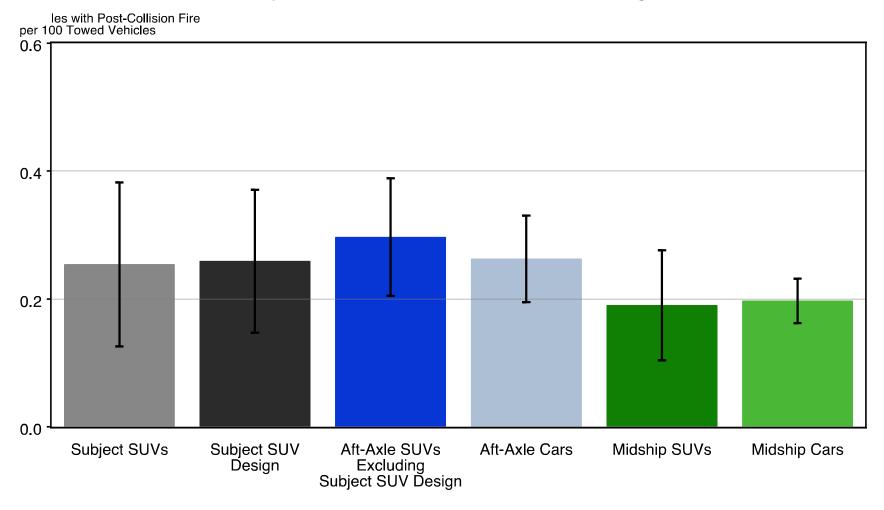
Predecessor SUVs are the model-year 1984-199 -1990 Jeep Wagoneer.

Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN.

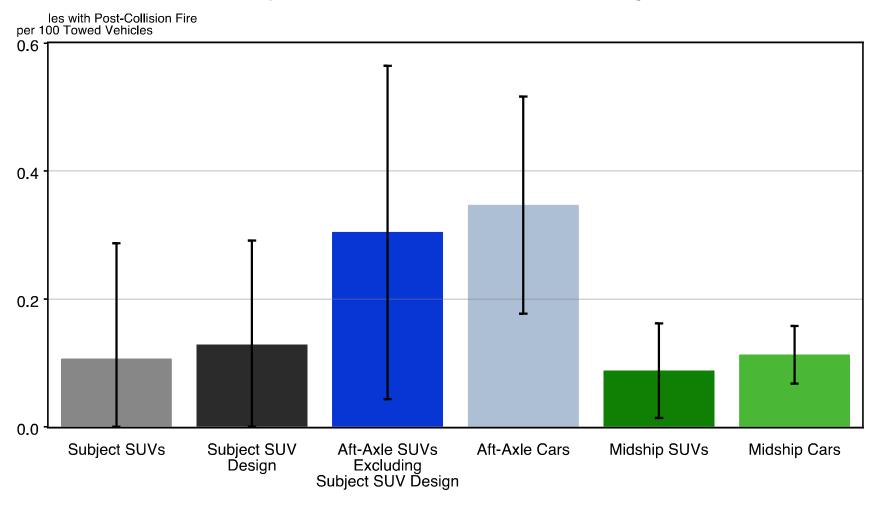
EA12-005- Chrysler -034875

Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage



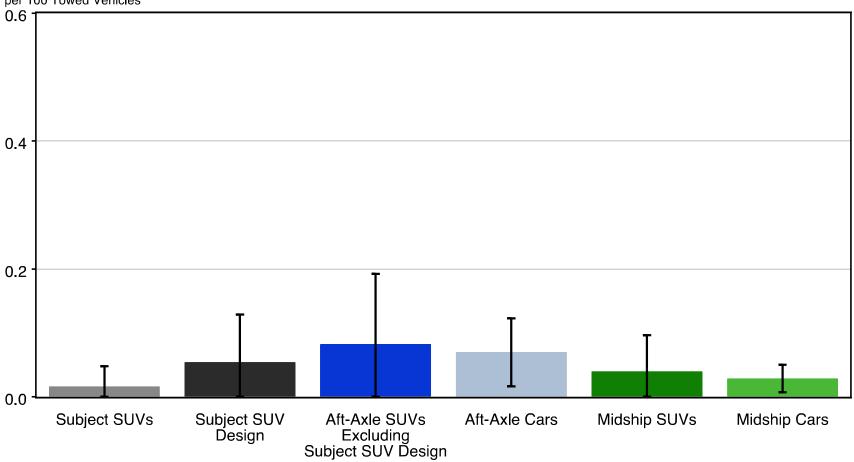
Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage



Rates of Most Harmful Event Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage





Source: NASS GES 1990-2010.

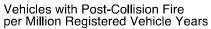
Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-1992 Jeep Cherokee and 1984-1990 Jeep Wagoneer.

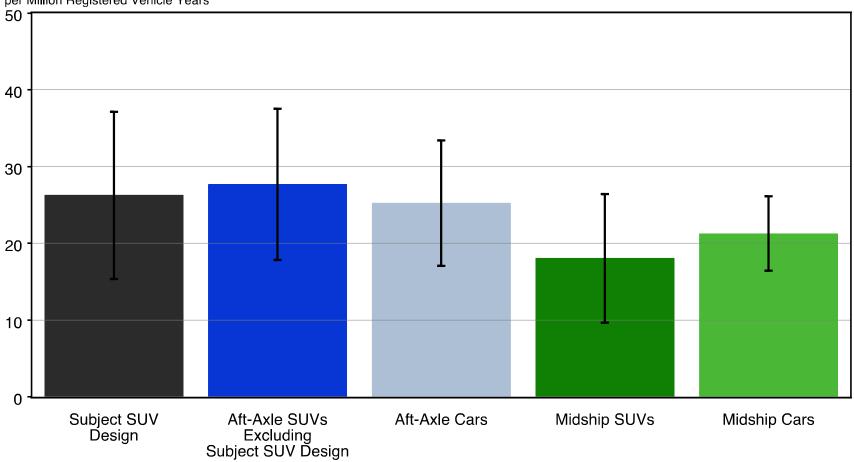
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN.

EA12-005- Chrysler -034878

Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage





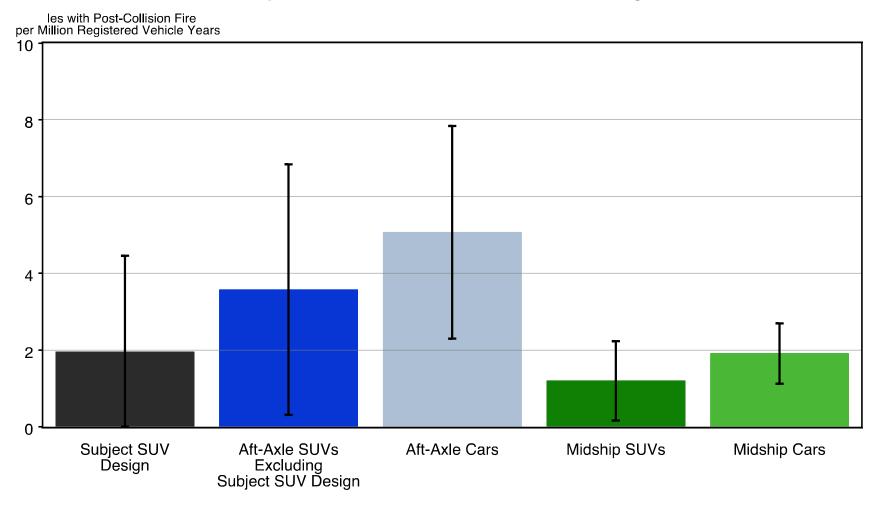
Sources: NASS GES 1990-2010 and Polk NVPP 1990-2010.
Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.

Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN.

EA12-005- Chrysler -034879

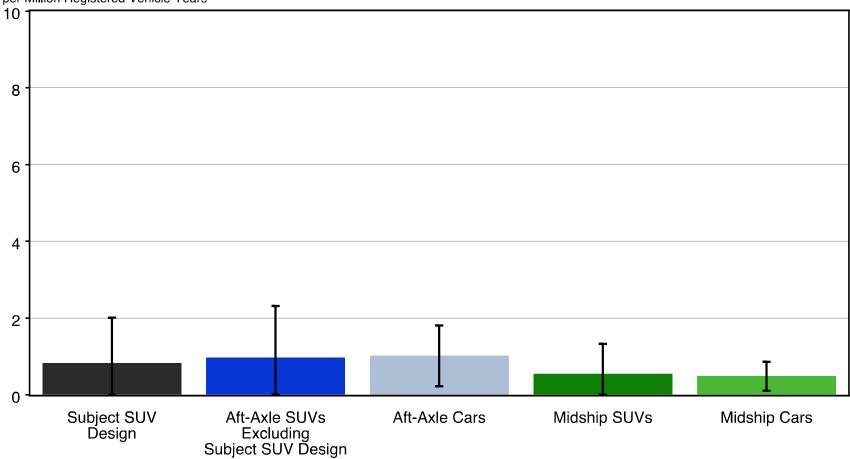
Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage



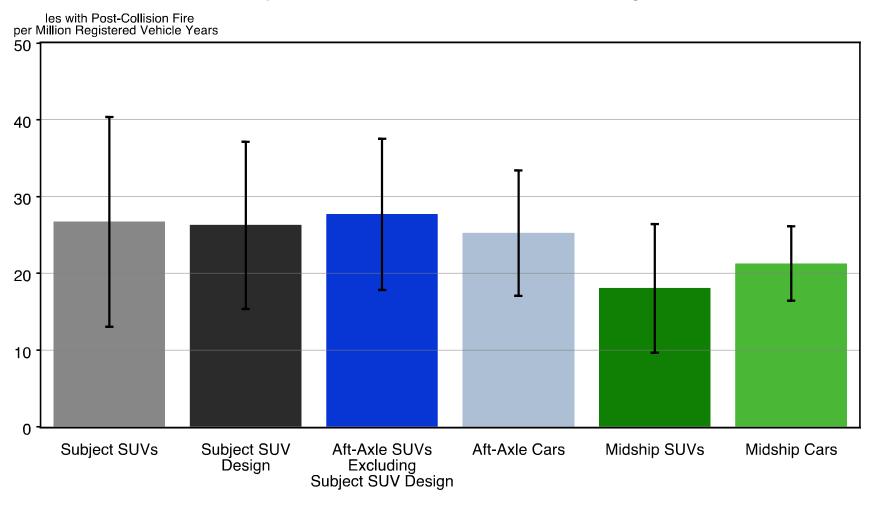
Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

Rates of Most Harmful Event Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

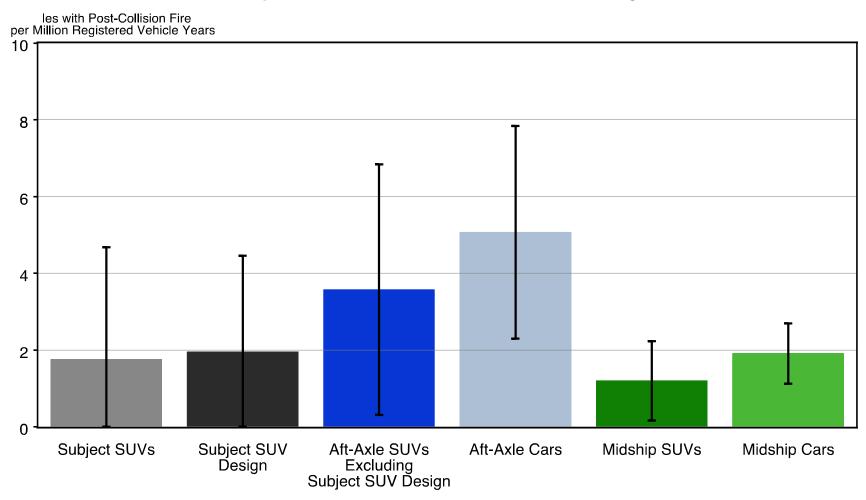




Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage



Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

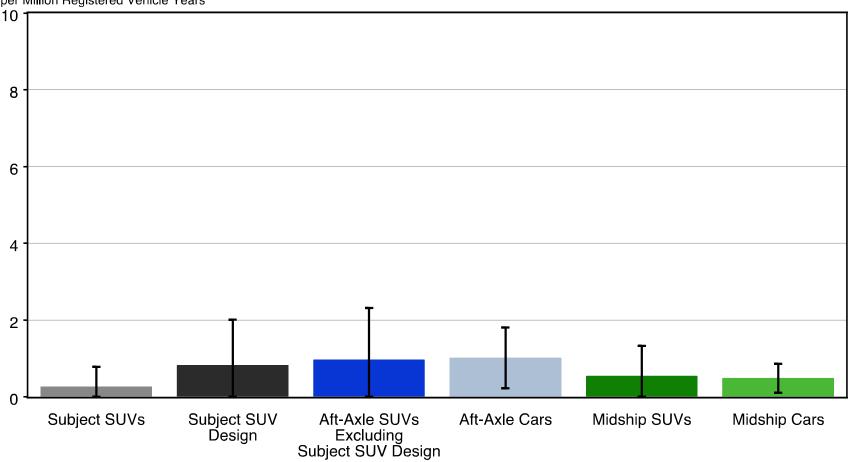


Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

EA12-005- Chrysler -034883

Rates of Most Harmful Event Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

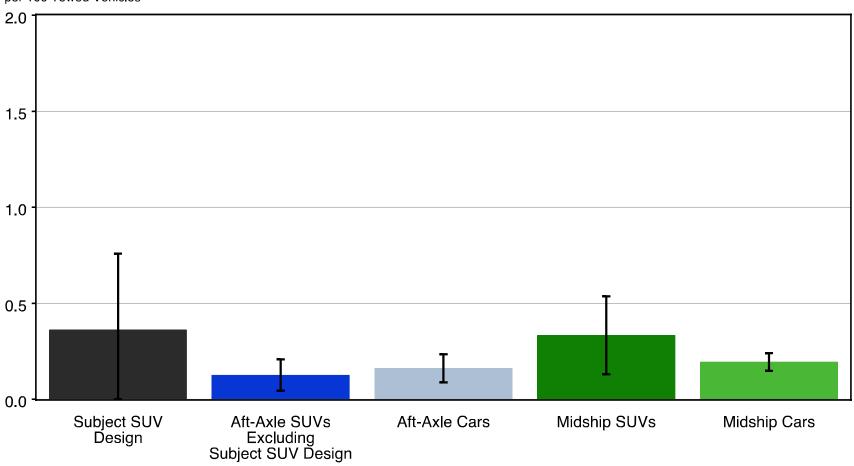
les with Most Harmful Event Post-Collision Fire per Million Registered Vehicle Years



NASS CDS

Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage

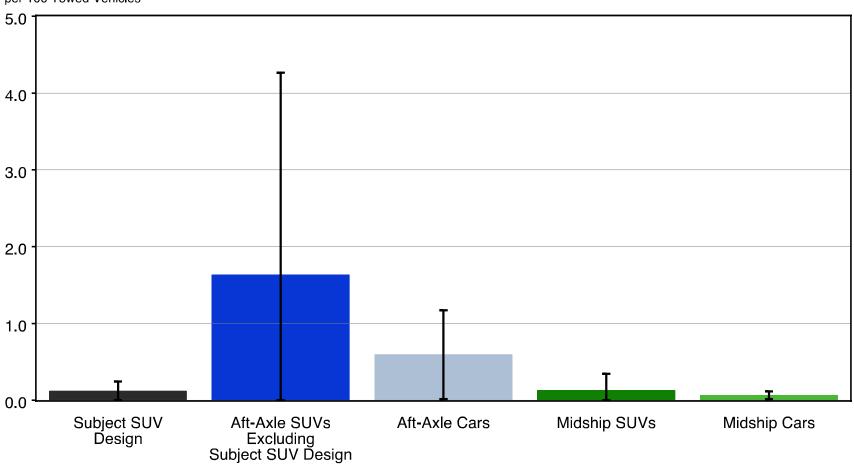




Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage



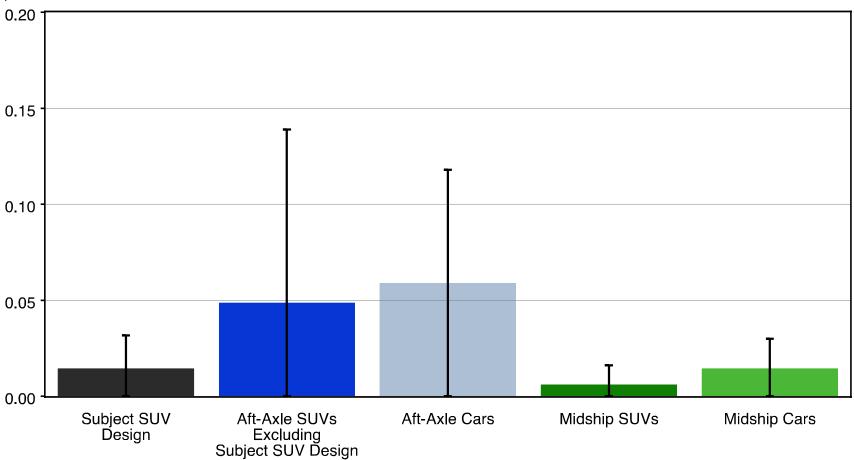


Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-1992 Jeep Cherokee and 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GAD1) equal to "Back."

EA12-005- Chrysler -034887

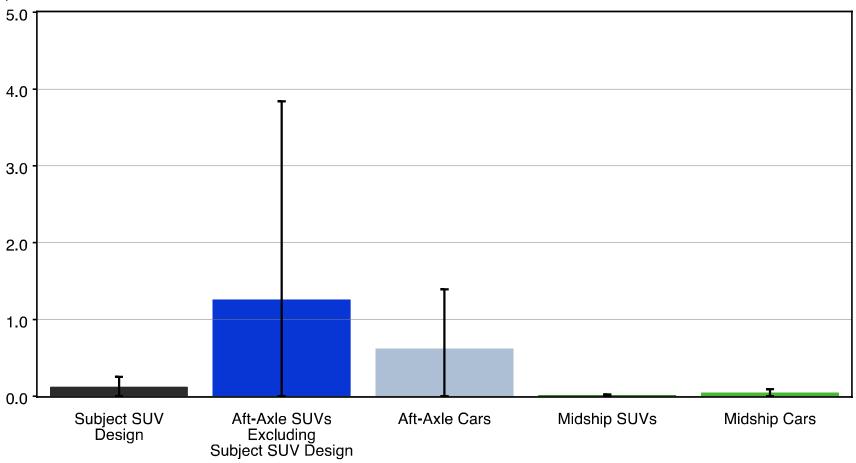
Rates of Post-Collision Fire with Origin in Fuel Tank Area Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire with Origin in Fuel Tank Area per 100 Towed Vehicles



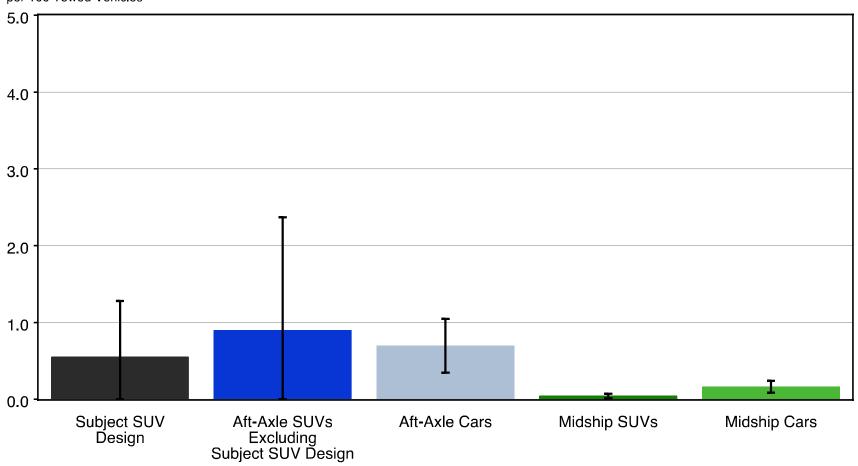
Rates of Post-Collision Fire with Origin in Fuel Tank Area in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire with Origin in Fuel Tank Area per 100 Towed Vehicles



Rates of Post-Collision Fuel System Leakage Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fuel System Leakage per 100 Towed Vehicles

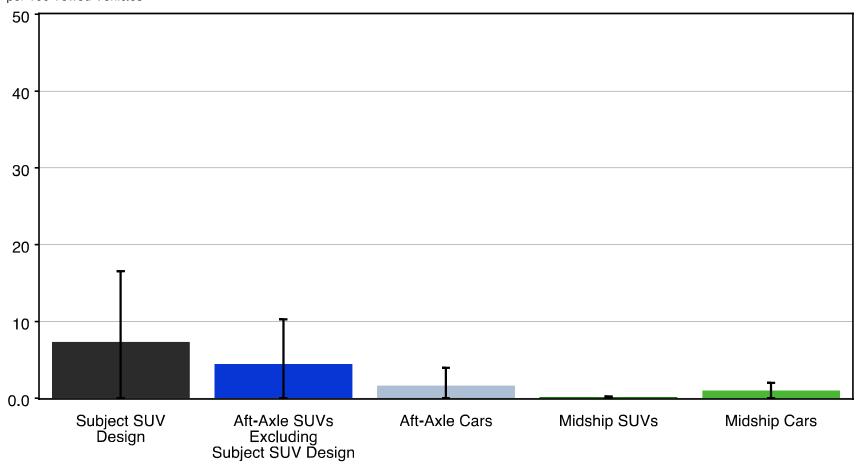


Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

EA12-005- Chrysler -034890

Rates of Post-Collision Fuel System Leakage in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fuel System Leakage per 100 Towed Vehicles

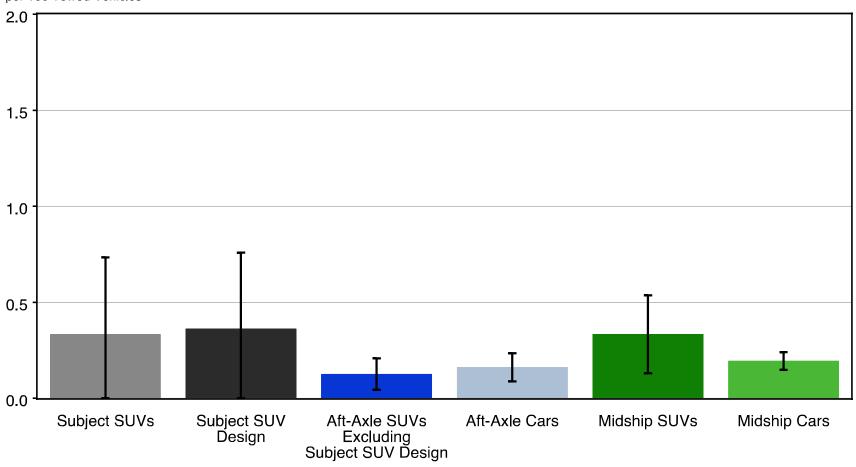


Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GADI) equal to "Back."

EA12-005- Chrysler -034891

Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fire per 100 Towed Vehicles



Source: NASS CDS 1988-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 Jeep Cherokee.

Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.

Predecessor SUVs are the model-year 1984-1992 Jeep Cherokee and 1984-1990 Jeep Wagoneer.

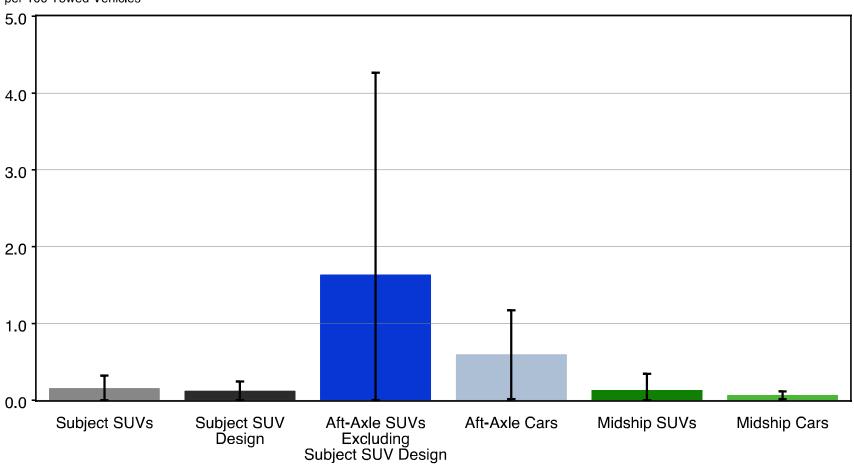
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN.

EA12-005- Chrysler -034892

Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage



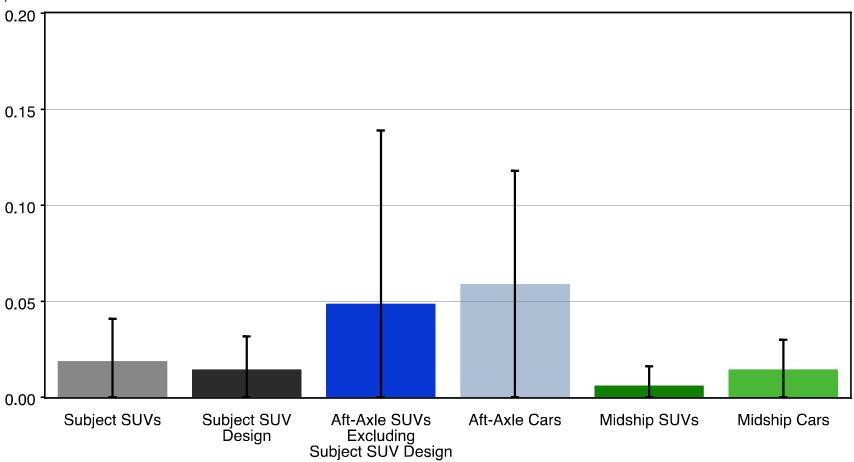


Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-199
-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GADI) equal to "Back."

EA12-005- Chrysler -034893

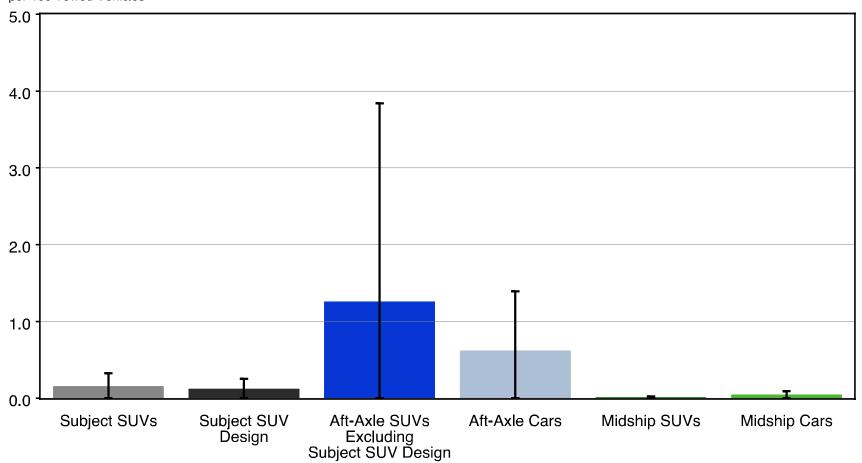
Rates of Post-Collision Fire with Origin in Fuel Tank Area Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire with Origin in Fuel Tank Area per 100 Towed Vehicles



Rates of Post-Collision Fire with Origin in Fuel Tank Area in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fire with Origin in Fuel Tank Area per 100 Towed Vehicles



Source: NASS CDS 1991-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration. Predecessor SUVs are the model-year 1984-199 1984-1990 Jeep Wagoneer.

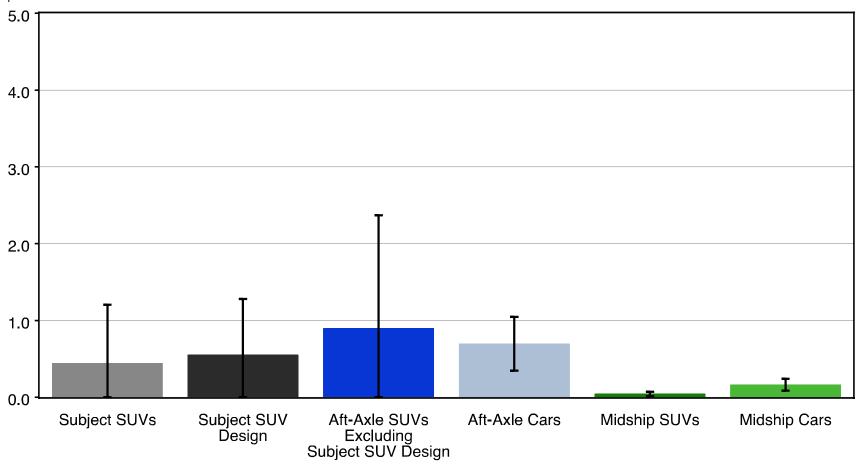
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GAD1) equal to "Back."

EA12-005- Chrysler -034895

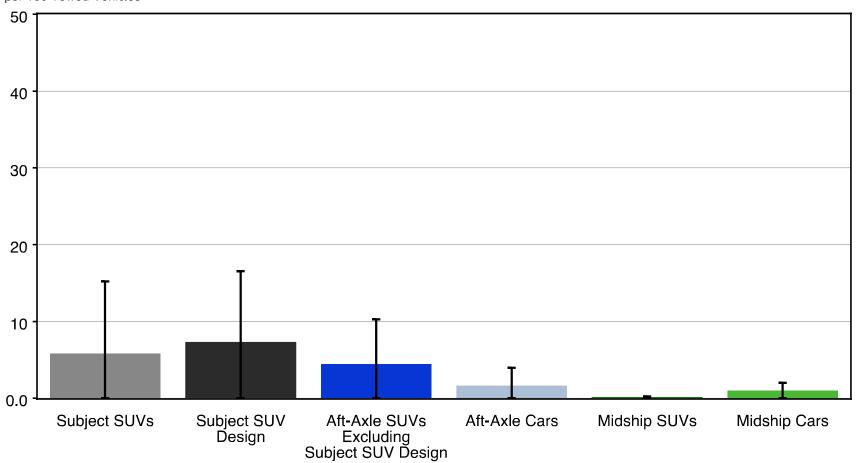
Rates of Post-Collision Fuel System Leakage Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fuel System Leakage per 100 Towed Vehicles



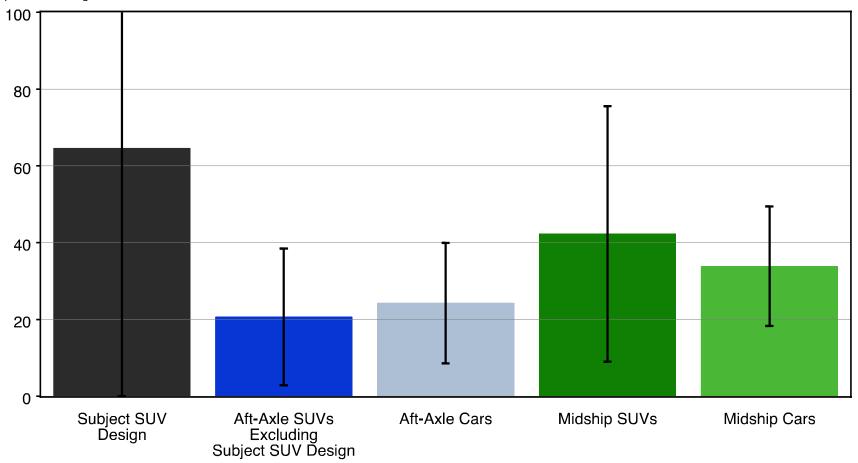
Rates of Post-Collision Fuel System Leakage in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fuel System Leakage per 100 Towed Vehicles



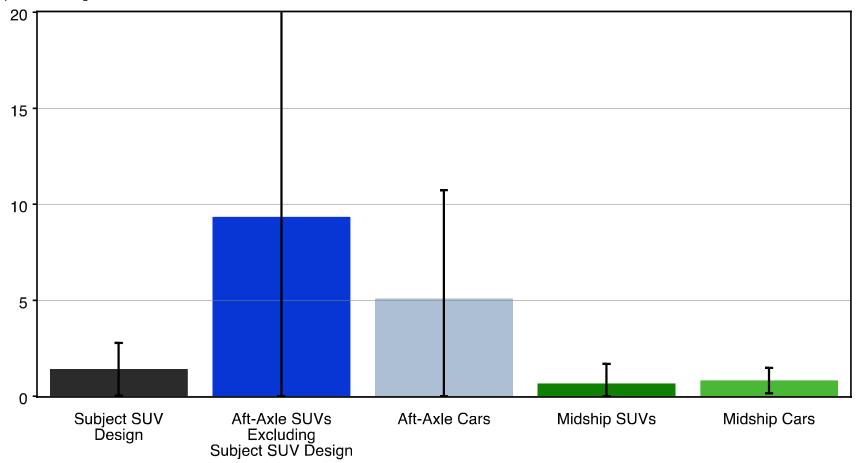
Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fire per Million Registered Vehicle Years



Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fire per Million Registered Vehicle Years



Sources: NASS CDS 1988-2010 and Polk NVPP 1988-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 Jeep Cherokee.

Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.

Predecessor SUVs are the model-year 1984-199 -1990 Jeep Wagoneer.

Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

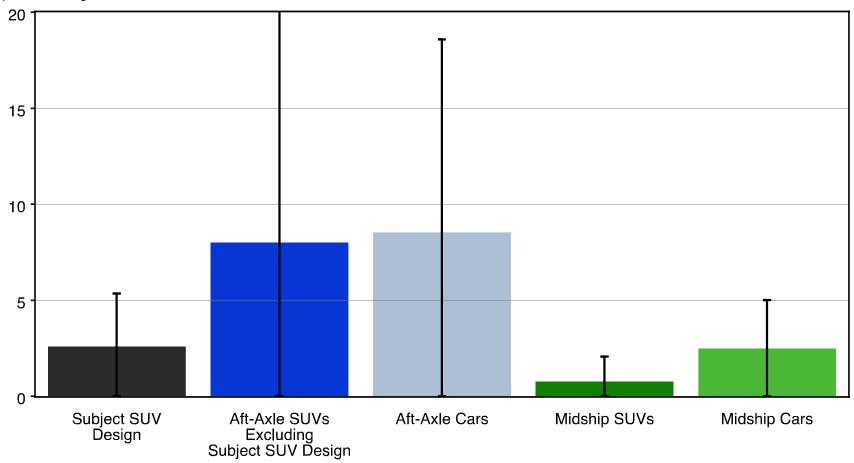
Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GAD1) equal to "Back."

EA12-005-

EA12-005- Chrysler -034899

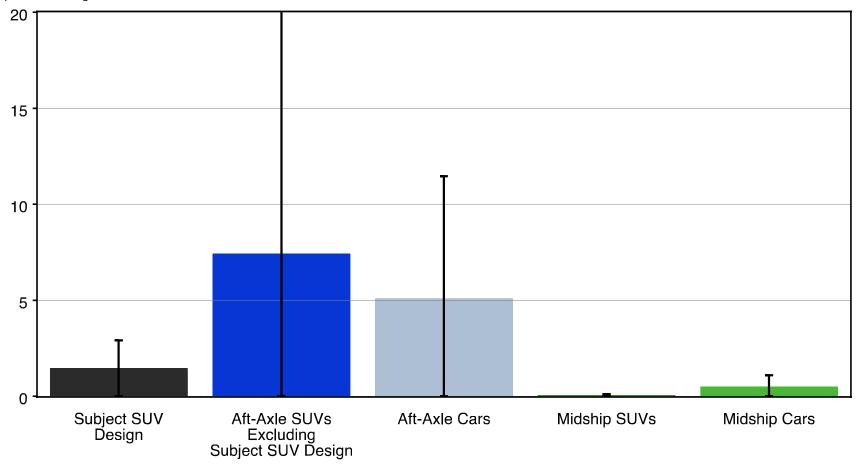
Rates of Post-Collision Fire with Origin in Fuel Tank Area Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire with Origin in Fuel Tank Area per Million Registered Vehicle Years



Rates of Post-Collision Fire with Origin in Fuel Tank Area in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fire with Origin in Fuel Tank Area per Million Registered Vehicle Years



Sources: NASS CDS 1991-2010 and Polk NVPP 1991-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 Jeep Cherokee.

Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.

Predecessor SUVs are the model-year 1984-199 -1990 Jeep Wagoneer.

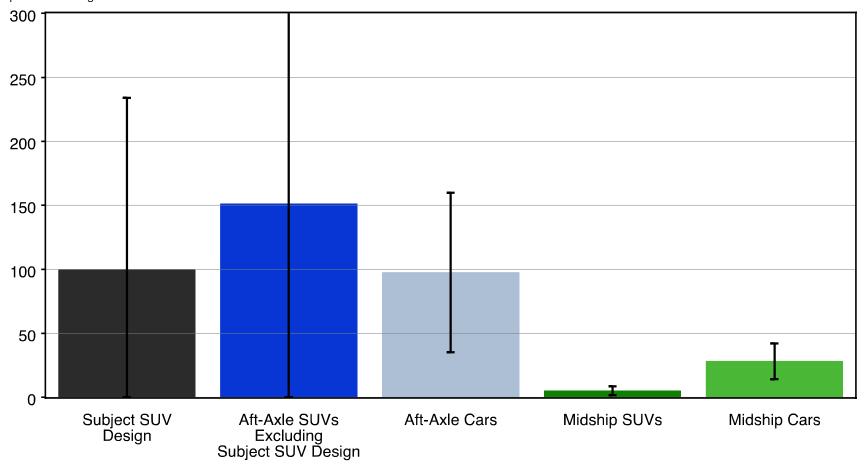
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GAD1) equal to "Back."

EA12-005- Chrysler -034901

Rates of Post-Collision Fuel System Leakage Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fuel System Leakage per Million Registered Vehicle Years

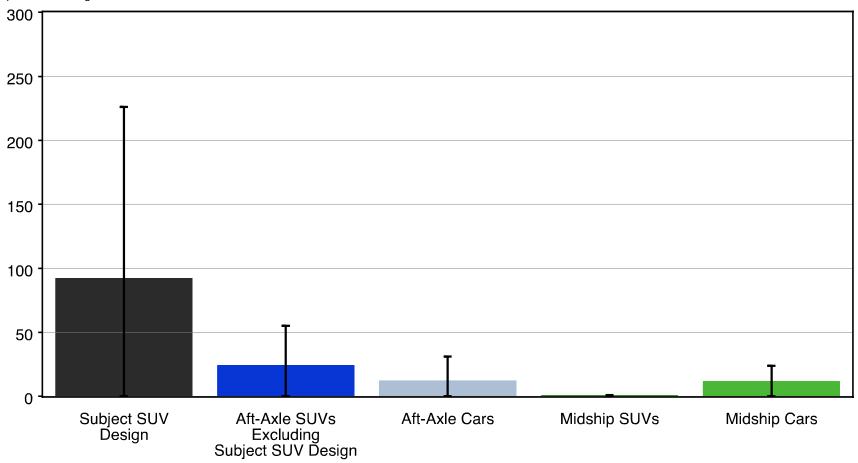


Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 J
Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.
Predecessor SUVs are the model-year 1984-1992 Jeep Cherokee and 1984-1990 Jeep Wagoneer.
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."
Vehicle models identified by VIN.

EA12-005- Chrysler -034902

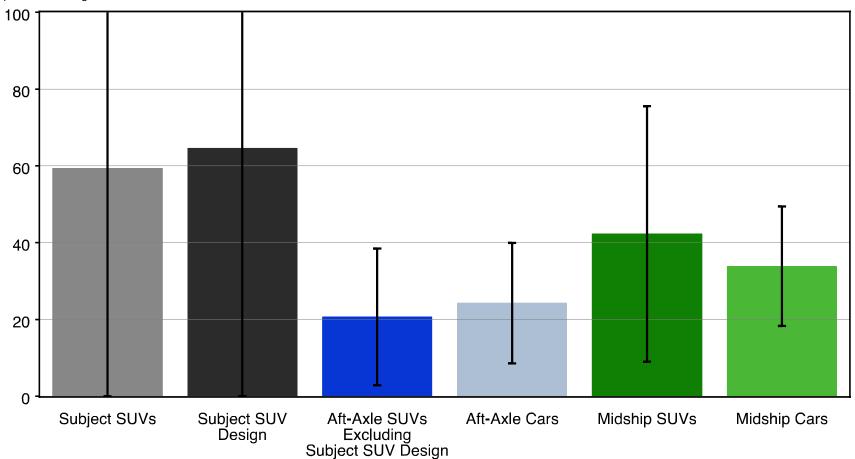
Rates of Post-Collision Fuel System Leakage in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fuel System Leakage per Million Registered Vehicle Years



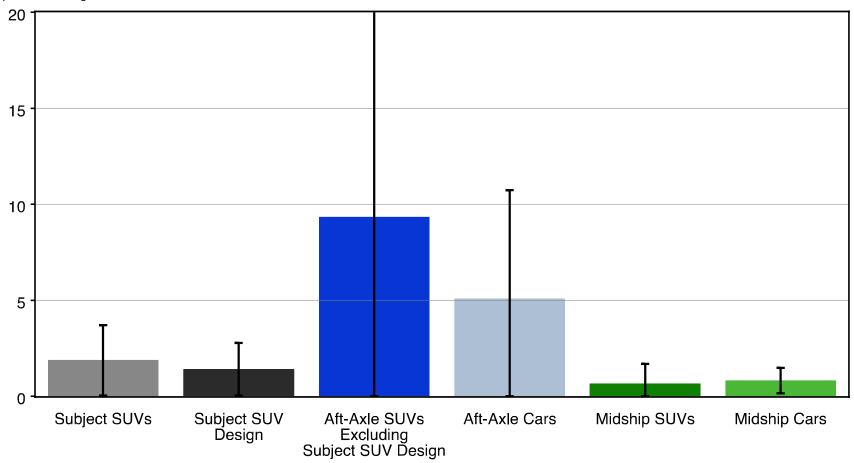
Rates of Post-Collision Fire Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire per Million Registered Vehicle Years



Rates of Post-Collision Fire in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fire per Million Registered Vehicle Years



Sources: NASS CDS 1988-2010 and Polk NVPP 1988-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 Jeep Cherokee.

Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.

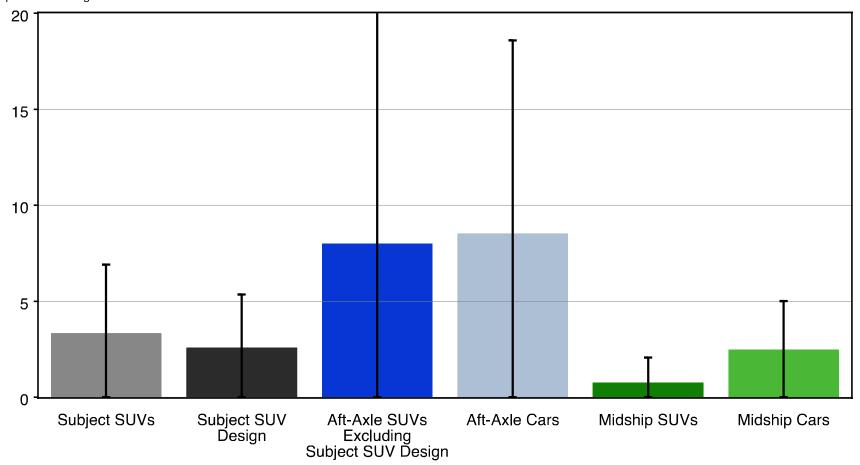
Predecessor SUVs are the model-year 1984-199 -1990 Jeep Wagoneer.

Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN. "Rear Impact" is defined as the Highest Deformation Location (variable: GAD1) equal to "Back." EA12-005- Chrysler -034905

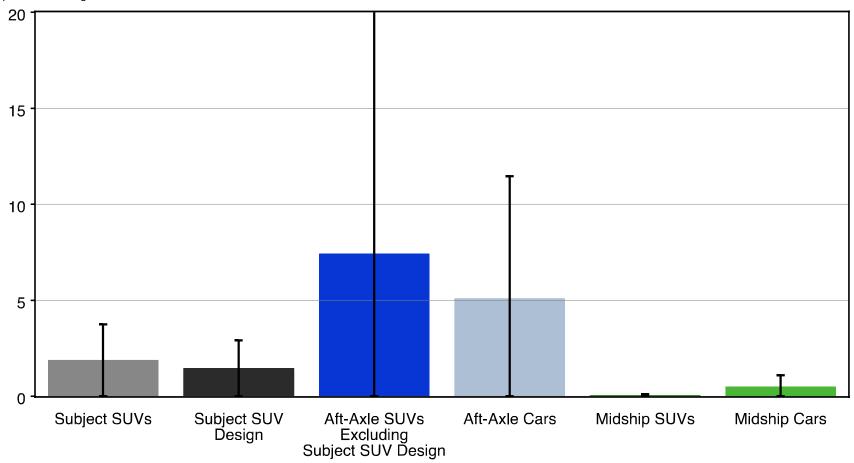
Rates of Post-Collision Fire with Origin in Fuel Tank Area Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire with Origin in Fuel Tank Area per Million Registered Vehicle Years



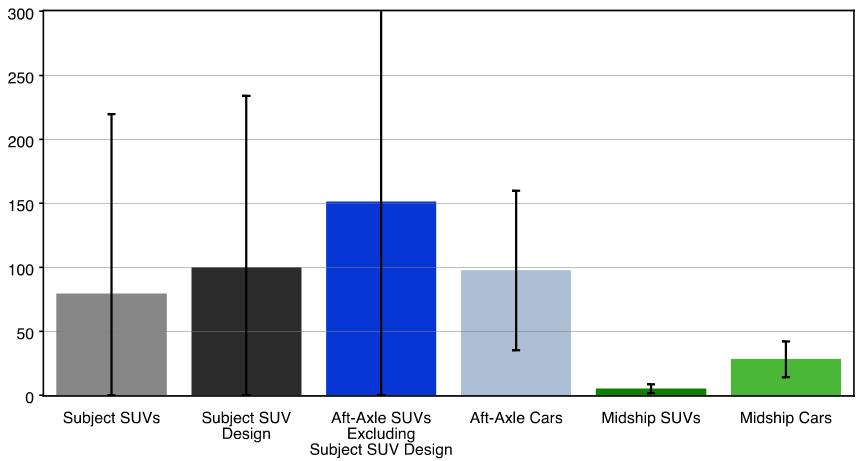
Rates of Post-Collision Fire with Origin in Fuel Tank Area in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fire with Origin in Fuel Tank Area per Million Registered Vehicle Years



Rates of Post-Collision Fuel System Leakage Utility Vehicles and Cars Towed Due to Damage

Vehicles with Post-Collision Fuel System Leakage per Million Registered Vehicle Years



Sources: NASS CDS 1994-2010 and Polk NVPP 1994-2010.

Subject SUVs are the model-year 1993-2004 Jeep Grand Cherokee, 2002-2007 Jeep Liberty, and 1993-2001 Jeep Cherokee.

Subject SUV Design refers to Subject SUVs as well as predecessor SUVs sharing the same fuel-tank configuration.

Predecessor SUVs are the model-year 1984-199 -1990 Jeep Wagoneer.

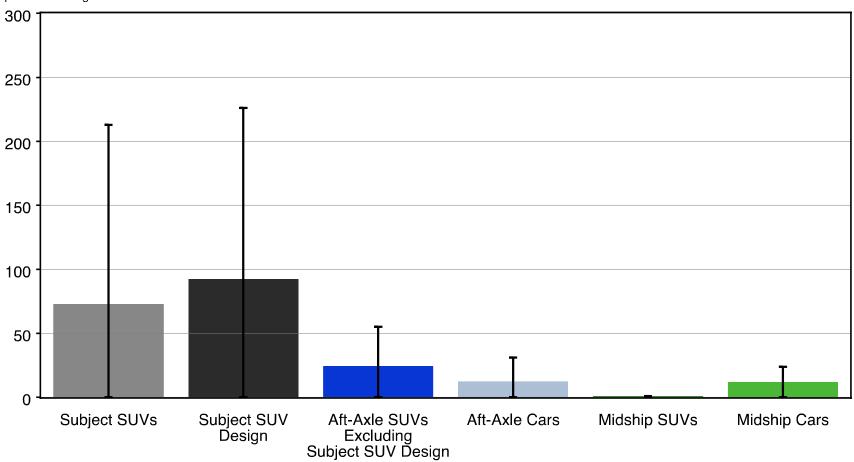
Other groups are model-year 1984-2005 cars and SUVs labeled with tank location "Mid Ship" or "Aft axle" in "Fuel Tank Location Information NHTSA 12-10-12."

Vehicle models identified by VIN.

EA12-005- Chrysler -034908

Rates of Post-Collision Fuel System Leakage in Rear Impacts Utility Vehicles and Cars Towed Due to Damage

les with Post-Collision Fuel System Leakage per Million Registered Vehicle Years



NASS GES and NASS CDS

- 1.Rates and prevalences of post-collision fire in rear impacts for the Subject SUV Design models are comparable to or lower than those of other SUVs with aft-axle tanks, and statistically indistinguishable from them. [Slides 3, 4, 6, 7, 9, 10, 12, 13, 16, 22, 28, 34]
- 2. Rates and prevalences of post-collision fire with origin in fuel tank area for the Subject SUV Design models are comparable to or lower than those of other SUVs with aft-axle tanks, and statistically indistinguishable from them. This holds generally as well as in rear impacts in particular. [Slides 17, 18, 23, 24,29, 30, 35, 36]
- 3.Rates and prevalences of post-collision fuel system leakage for the Subject SUV Design models are comparable to or lower than those of other SUVs with aft-axle tanks, and statistically indistinguishable from them. [Slides 19, 25, 31, 37]
- 4.Rates and prevalences of post-collision fuel system leakage in rear impacts for the Subject SUV Design models are statistically indistinguishable from those of other SUVs with aft-axle tanks. [Slides 20, 26, 32, 38]

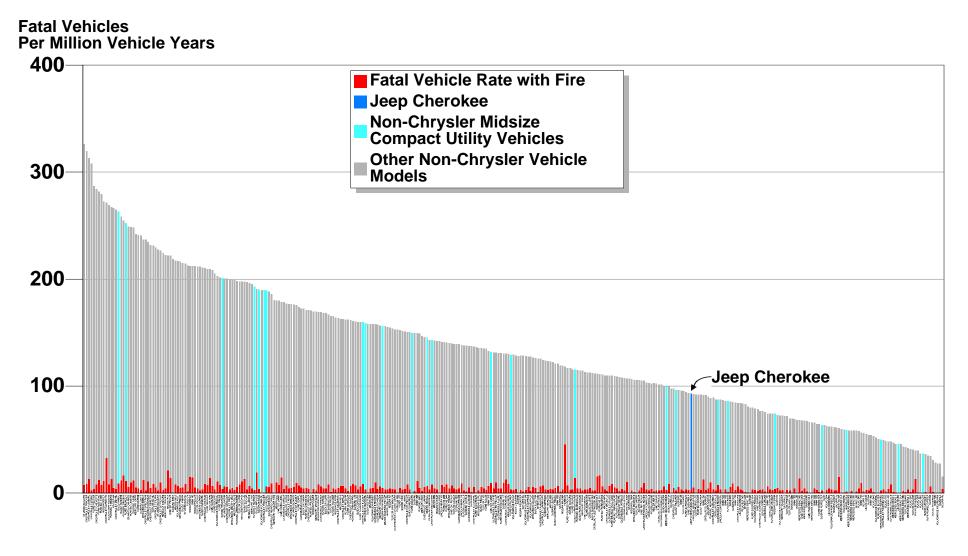
EA12-005 CHRYSLER 12/13/2012

Enclosure 6G Wecker Report, DX WECKER MATLS

OPINIONS

- Many other models, including many midsize non-Chrysler compact
 utility vehicles and many passenger car models, have higher fatal
 vehicle rates than that of model year 1984-2001 Jeep Cherokees
 vehicles. This holds for all collisions as well as rear impact collisions.
- 2. Many other models, including many midsize non-Chrysler compact utility vehicles and many passenger car models, have higher fatal vehicle rates with fire than that of model year 1984-2001 Jeep Cherokees vehicles. This holds for all collisions as well as rear impact collisions.
- 3. The fatal or major vehicle rates of model year 1984-2001 Jeep Cherokees are comparable to those of midsize non-Chrysler compact utility vehicles of the same vintage. This holds for all collisions as well as rear impact collisions.
- Post-collision fire rates of model year 1984-2001 Jeep Cherokees are comparable to those of non-Chrysler midsize compact utility vehicles.
 This holds for all collisions as well as rear impact collisions.

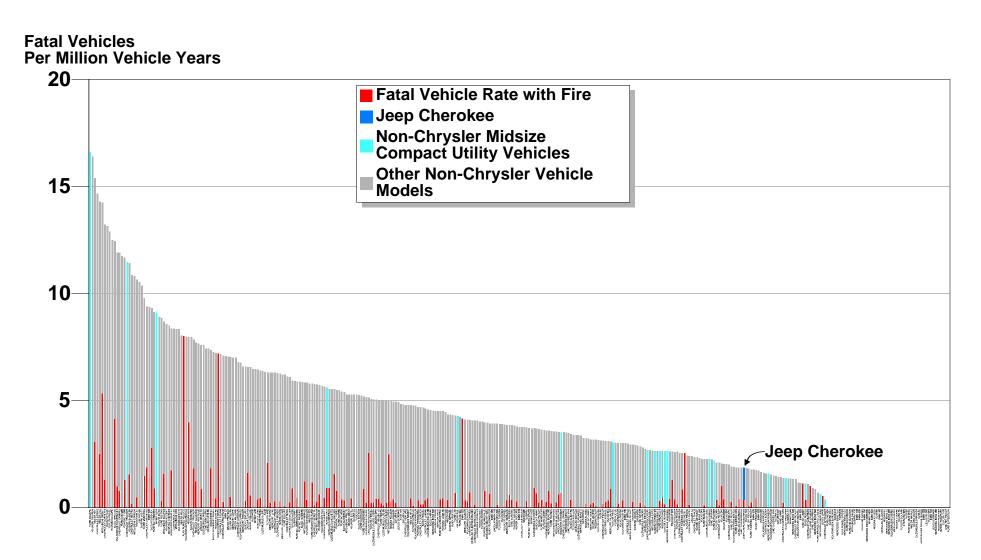
Fatal Vehicle Rates Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks



Vehicle Models

EA12-005- Chrysler -013274

Fatal Vehicle Rates in Rear Impacts Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks



Vehicle Models

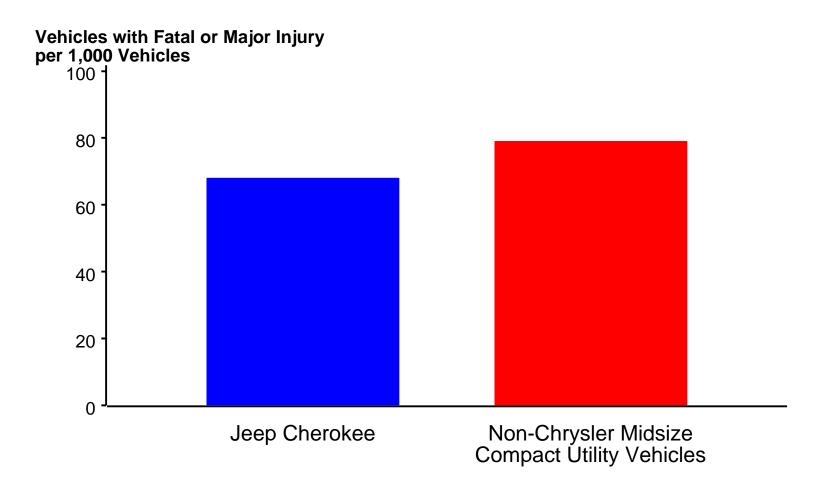
EA12-005- Chrysler -013275

Fourteen State Accident Databases

Publicly Available with Vehicle Identification Numbers and Fire Indicators

	Accident Years	All	Rear
Alabama	1989-2001	<u>Impacts</u>	<u>Impact</u>
Arkansas	1990-1996		
Florida	1986-2001	•	
Idaho	1989-2001	•	
Illinois	1993-1995	•	
Iowa	1990-2000	•	
Maryland	1988-2000	•	•
Michigan	1983-1991	•	
Nebraska	1993-2000	•	
New York	1983-2000	•	
North Carolina	1988,1990-1999	•	
Ohio	1991-1997,1999	•	
Wisconsin	1994-2001	•	
Wyoming	1988-2001	•	

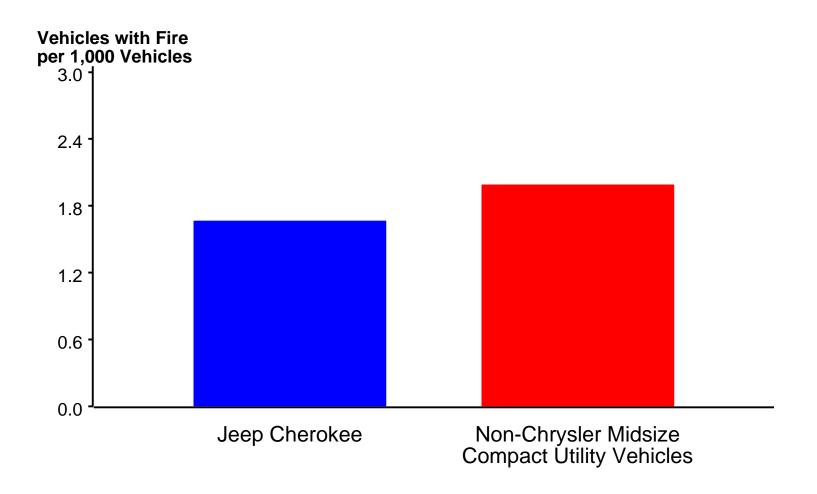
Fatal or Major Injury Rates Midsize Compact Utility Vehicles in Injury Accidents



Model year 1984-2001 compact utility vehicles in police reported collisions in Alabama, Arkansas, Florida, Idaho, Illinois, Iowa, Maryland, Michigan, Nebraska, New York, North Carolina, Ohio, Wisconsin or Wyoming A12-005- Chrysler -013277 Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee.

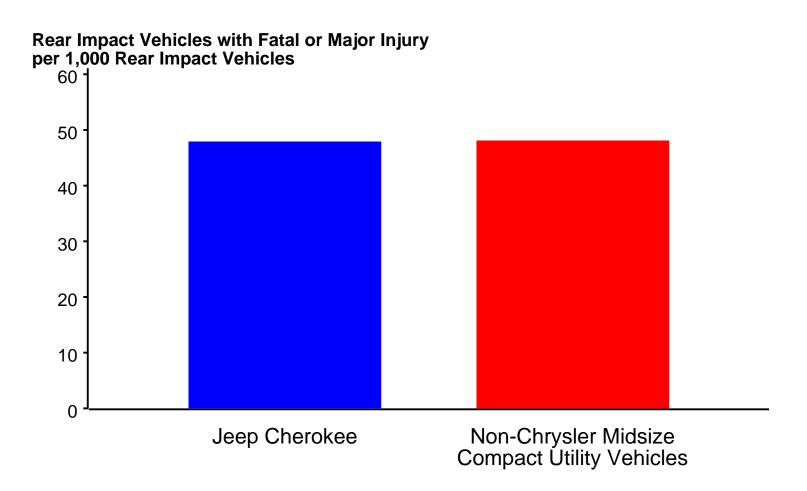
Post-Collision Fire Rates Midsize Compact Utility Vehicles in Injury Accidents



Model year 1984-2001 compact utility vehicles in police reported collisions in Alabama, Arkansas, Florida, Idaho, Illinois, Iowa, Maryland, Michigan, Nebraska, New York, North Carolina, Ohio, Wisconsin or Wyoming A12-005- Chrysler -013278 Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee.

Rear Impact Fatal or Major Injury Rates Midsize Compact Utility Vehicles in Injury Accidents

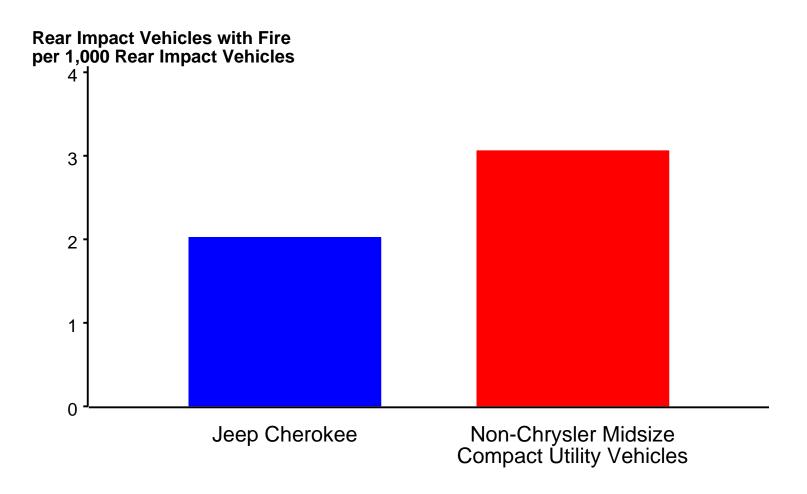


Model year 1984-2001 compact utility vehicles in police reported collisions in Alabama, Arkansas, Florida, Idaho,
Maryland, Michigan, Nebraska, North Carolina or Wyoming.

EA12-005- Chrysler -013279
Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee.

Rear Impact Post-Collision Fire Rates Midsize Compact Utility Vehicles in Injury Accidents



Model year 1984-2001 compact utility vehicles in police reported collisions in Alabama, Arkansas, Florida, Idaho,
Maryland, Michigan, Nebraska, North Carolina or Wyoming.

EA12-005- Chrysler -013280
Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee.

Fatal Vehicle Rates in All Impacts
Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001
with 100,000 or more Registered Years from POLK NVPP 1984-2001

		Vehicle	Fatal Vehicle Rate with Fire	
0bs	Vehicle	Rate	rire	
1	HYUNDAI SCOUPE	326.1	7.8	
2	CHEVROLET TRACKER	319.6	8.8	
3	CHEVROLET CAMARO	313.1	13.6	
4	CHEVROLET SPRINT	307.5	2.4	
5	FORD FESTIVA	286.6	3.9	
6	CHEVROLET CHEVETTE	284.3	8.4	
7	FORD MUSTANG PONTIAC T1000 NISSAN 300 ZX CHEVROLET CORVETTE	281.4	12.4	
8	PONTIAC T1000	279.0	7.8	
9	NISSAN 300 ZX	272.3 271.0	11.6	
10	CHEVROLET CORVETTE	271.0	32.9	
11			8.1	
12	PONTIAC FIREBIRD	267.2	13.4	
13	KIA SEPHIA	266.2	5.3	
14	CHEVROLET METRO	264.7	4.0	
15	SUZUKI SWIFT/SAJIU PONTIAC FIREBIRD KIA SEPHIA CHEVROLET METRO ISUZU AMIGO ISUZU HOMBRE HYUNDAI TIBURON FORD BRONCO II DAHATSU CHARADE PONTIAC LEMANS	263.0	9.0	***
16	ISUZU HOMBRE	258.1	11.7	
17	HYUNDAI TIBURON	254.3	16.4	
18	FORD BRONCO II	251.8	11.5	***
19	DAIHATSU CHARADE	248.9	5.7	
20	DATHATSU CHARADE PONTIAC LEMANS PONTIAC FIERO MERCURY CAPRI FORD ASPIRE SUBARU JUSTY MITSUBISHI 3000GT	248.5 248.1	10.3	
21	PONTIAC FIERO	248.1	12.0	
22	MERCURY CAPRI	241.6 241.2	5.0	
23	FORD ASPIRE	241.2	4.4	
24	SUBARU JUSTY	240.6 236.5	3.5	
25	MITSUBISHI 3000GT	236.5	12.4	
26			2.5	
27	MITSUBISHI STARION	234.2	10.8	
28	MITSUBISHI STARION CHEVROLET BERETTA	231.5	5.0	
29		271.2	8.9	
30	CHEVROLET STORM	229.0	5.6	
31	HYUNDAI ACCENT	227.8	2.9	
32	CHEVROLET S/T PICKUP	226.4	10.1	
33	RENAULT ENCORE	224.2	3.2	
34	MERCURY TRACER	222.2	4.5	
35	MAZDA RX7	221.8	21.2	
36	GMC S/T PICKUP	221.6	14.2	
37	SUBARU BRAT	218.4	0.0	
38	HYUNDAI ACCENT CHEVROLET S/T PICKUP RENAULT ENCORE MERCURY TRACER MAZDA RX7 GMC S/T PICKUP SUBARU BRAT MAZDA MX-3 VOLKSWAGEN GTI MITSUBISHI PRECIS	216.9	8.0	
39	VOLKSWAGEN GTI	216.7	6.9	
40	MITSUBISHI PRECIS	216.4	5.3	
41	ISUZU I-MARK	215.0	5.5	
42	HYUNDAI EXCEL	214.5	8.6	

Note 1: Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee

Note 2: Non-Chrysler Passenger Cars and Light Trucks do not include Chrysler, Dodge, Jeep, Plymouth, Eagle or AMC

Note 3: *** = Non-Chrysler Midsize Compact Utility Vehicles

Fatal Vehicle Rates in All Impacts Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

			Fatal	
		Fata1	Vehicle	
		Vehicle	Rate with	
Obs	Vehicle	Rate	Fire	
ODS	VCIIICIC			
43	Vehicle YUGO GV NISSAN 200 SX BMW M3 NISSAN PICKUP TOYOTA PICKUP MITSUBISHI CORDIA SUZUKI SAMURAI CHEVROLET CITATION FORD RANGER TOYOTA MR2 GMC SONOMA FORD ESCORT VOLKSWAGEN SCIROCCO FORD PROBE HONDA PASSPORT HYUNDAI ELANTRA CHEVROLET CAVALIER CHEVROLET CAVALIER CHEVROLET PRIZM MITSUBISHI MIGHTY MAX MAZDA PROTEGE PONTIAC J2000/SUNBIRD	212.5	1.8 15.1	
44	NTSSAN 200 SX	212.0	15.1	
45	вму мз	211.9	14.8	
46	NISSAN PICKUP	211.9	5.1	
47	TOYOTA PICKUP	211.5	4.4	
48	MITSUBISHI CORDIA	211.5	2.5	
49	SUZUKI SAMURAI	210.6	3.7	
50	CHEVROLET CITATION	210.0	8.6	
51	FORD RANGER	209.6	7.7	
52	TOYOTA MR2	209.1	14.0	
53	GMC SONOMA	208.7	7.0	
54	FORD ESCORT	204.8	3.6	
55	VOLKSWAGEN SCIROCCO	202.7	11.2	
56	FORD PROBE	201.4	7.9	
57	HONDA PASSPORT	200.6	4.2	***
58	HYUNDAI ELANTRA	200.6	6.7	
59	CHEVROLET CAVALIER	200.3	5.6	
60	CHEVROLET PRIZM	199.8	3.7	
61	MITSUBISHI MIGHTY MAX	199.4	4.8	
62	MAZDA PROTEGÉ	198.7	3.0	
63	PONTIAC J2000/SUNBIRD	197.7	5.7	
64	TOYOTA SUPRA	197.5	8.2	
65	MITSUBISHI ECLIPSE	197.4	11.1	
66	ISUZU STYLUS	197.4	13.2	
67	ISUZU PICKUP	196.9	3.7	
68	RENAULT ALLIANCE	196.1	6.5	
69	MERCURY LYNX	195.0	4.4	***
70	TOYOTA 4 RUNNER	192.7	2.9	
71	ISUZU IMPULSE	190.7	19.3	
72	KIA SPORTAGE	189.9	4.3	
73	VOLKSWAGEN CORRADO	189.6	0.0 0.0	***
74	CHEVROLET TRACKER	189.3	6.3	***
75	ISUZU RODEO	188.9	5.6	
76	SUZUKI SIDEKICK	188.0	9.2	
77	CHEVROLET MONTE CARLO	183.8	0.0	
78	MERCURY COUGAR FWD	180.3	10.1	
79	MAZDA GLC	170.0	7.5	
80	GMC S/T JIMMY	179.4	14.9	
81	GMC CABALLERO	170.3	3.8	
82	VEDSMOBILE OMEGA	176.2	7.3	
83 84	CHEMBOLET NOVA	176.5	4.4	
04	MITSUBISHI MIGHTY MAX MAZDA PROTEGE PONTIAC J2000/SUNBIRD TOYOTA SUPRA MITSUBISHI ECLIPSE ISUZU STYLUS ISUZU PICKUP RENAULT ALLIANCE MERCURY LYNX TOYOTA 4 RUNNER ISUZU IMPULSE KIA SPORTAGE VOLKSWAGEN CORRADO CHEVROLET TRACKER ISUZU RODEO SUZUKI SIDEKICK CHEVROLET MONTE CARLO MERCURY COUGAR FWD MAZDA GLC GMC S/T JIMMY GMC CABALLERO OLDSMOBILE OMEGA MERCURY TOPAZ CHEVROLET NOVA	1,0.5	• • •	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 Fatal Vehicle Rates in All Impacts with 100,000 or more Registered Years from POLK NVPP 1984-2001

			Fatal Vehicle Rate with Fire	
Obs	MITSUBISHI MIRAGE HYUNDAI SONATA CHEVROLET S/T BLAZER FORD TEMPO OLDSMOBILE CALAIS BUICK SKYHAWK PONTIAC GRAND AM CHEVROLET CORSICA PONTIAC PHOENIX NISSAN PULSAR MERCURY MYSTIQUE NISSAN 200 SX/240 SX OLDSMOBILE FIRENZA TOYOTA TERCEL BUICK SKYLARK MITSUBISHI VAN TOYOTA PASEO TOYOTA TACOMA NISSAN SENTRA CHEVROLET CELEBRITY MAZDA MX-6 CHEVROLET IMPALA ACURA INTEGRA FORD CONTOUR CHEVROLET BLAZER PONTIAC GRAND PRIX SUBARU XT6 BUICK CENTURY FORD THUNDERBIRD CHEVROLET S/T BLAZER MITSUBISHI MONTERO SUZUKI ESTEEM MAZDA 323 VOLKSWAGEN RABBIT OLDSMOBILE ACHIEVA MERCURY COUGAR NISSAN PATHFINDER MAZDA B-SERIES PICKUP HONDA PRELUDE NISSAN NX TOYOTA VAN WAGON	Rate	Fire	
85	MITSUBISHI MIRAGE	176.2	4.9	:
86	HYUNDAI SONATA	175.9	5./	
87	CHEVROLET S/T BLAZER	175.7	9.8	
88	FORD TEMPO	173.5	7.1	
89	OLDSMOBILE CALAIS	1/2.3	3.6	
90	BUICK SKYHAWK	172.2	4.1	
91	PONTIAC GRAND AM	171.0	3.1	
92	CHEVROLET CORSICA	170.5	4.0	
93	PONTIAC PHOENIX	170.4	0.0	
94	NISSAN PULSAR	169.7	4.4	
95	MERCURY MYSTIQUE	169.4	2.0	
96	NISSAN 200 SX/240 SX	169.0	8.4	
97	OLDSMOBILE FIRENZA	168.7	6.3	
98	TOYOTA TERCEL	168.1	4.5	
99	BUICK SKYLARK	167.9	4.3	
100	MITSUBISHI VAN	166.8	8.3	
101	TOYOTA PASEO	165.2	1.2	
102	TOYOTA TACOMA	165.1	4.2	
103	NISSAN SENTRA	163.6	3.4	
104	CHEVROLET CELEBRITY	163.4	4.8	
105	MAZDA MX-6	162.2	6.5	
106	CHEVROLET IMPALA	162.1	6.6	
107	ACURA INTEGRA	162.1	4.5	
108	FORD CONTOUR	162.0	2.2	
109	CHEVROLET BLAZER	161.4	6.9	
110	PONTIAC GRAND PRIX	160.7	8.7	
111	SUBARU XT6	159.7	7.3	
112	BUICK CENTURY	159.7	3.6	
113	FORD THUNDERBIRD	159.5	6.4	
114	CHEVROLET S/T BLAZER	159.4	8.5	***
115	MITSUBISHI MONTERO	158.8	3.7	
116	SUZUKI ESTEEM	157.8	0.0	
117	MAZDA 323	157.7	4.0	
118	VOLKSWAGEN RABBIT	157.6	4.8	
119	OLDSMOBILE BRAVADA	157.6	10.2	
120	OLDSMOBILE ACHIEVA	157.5	4.1	
121	MERCURY COUGAR	156.1	6.3	***
122	NISSAN PATHFINDER	155.9	3.1	= ./
123	MAZDA B-SERIES PICKUP	100.8	3.0	
124	HONDA PRELUDE	153.0	17	
125	NISSAN NX	154.4	4.4	
126	TOYOTA VAN WAGUN	133.9	4.4	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001 Fatal Vehicle Rates in All Impacts

		Pata1	Fatal Vehicle	
			Rate with	
			Fire	
Obs	Vehicle	Rate	rite	
127	OLDSMOBILE CUTLASS CIERA PORSCHE 924 FORD LTD HONDA CIVIC GMC JIMMY CHEVROLET C/K PICKUP BUICK SOMERSET FORD ESCAPE SUBARU BMW 325 PONTIAC 6000 MERKUR XR4TI CHEVROLET LUMINA MAZDA NAVAJO CADILLAC CIMARRON LAND ROVER DISCOVERY MAZDA 929 NISSAN STANZA NISSAN STANZA NISSAN AXXESS LINCOLN MARK VIII PORSCHE 928 PORSCHE 924 MITSUBISHI TREDIA GMC C/K PICKUP TOYOTA CELICA STERLING 825 OLDSMOBILE SUPREME LINCOLN MARK VII TOYOTA COROLLA SUBARU LOYALE OLDSMOBILE OLDS 98 AUDI 4000 CHEVROLET EL CAMINO FORD EXCURSION MITSUBISHI EXPO BUICK REGAL TOYOTA T100 FORD FOCUS BMW 318 GMC S/T JIMMY OLDSMOBILE DELTA 88 CHEVROLET R/V PICKUP	152.7	3.6	
128	PORSCHE 924	152.5	0.0	
129	FORD LTD	152.0	4.8	
130	HONDA CIVIC	151.2	3.6	
131	GMC JIMMY	150.7	4.3	
132	CHEVROLET C/K PICKUP	150.5	8.4 3.7	
133	BUICK SOMERSET	150.2	3.7	
134	FORD ESCAPE	149.4	0.0	***
135	SUBARU	149.3	2.0	
136	BMW 325	148.9	11.3	
137	PONTIAC 6000	148.9	5.2	
138	MERKUR XR4TI	146.3	2.3	
139	CHEVROLET LUMINA	145.6	5.8	
140	MAZDA NAVAJO	145.0	6.6	***
141	CADILLAC CIMARRON	143.0	3.7	
142	LAND ROVER DISCOVERY	142.8	8.1	***
142	MAZDA 929	142.1	4.5	
144	MICCAN STANZA	141.7	3.3	
144	MICCUM NAALCC	141.7	0.0	
145	NISSAN AAAESS	140.8	7.8	
140	DODGODE 028	140.8	5.9	
14/	DOBECUE 944	140.6	8.5	
140	MINCIPLENT TOFNIA	140.0	4.5	
150	MILEOPISMI INDEX	139.4	7.3	
150	MOYOMA CELICA	139.3	4.5	
157	CORDITION 825	139.1	3.6	
152	OF DEMORITE STIPPEME	139.0	4.9	
154	TINCOLN MARK VII	138.1	8.9	
155	TOYOTA COROLLA	137.9	2.6	
155	CITARIT LOVALE	137.7	1.8	
157	OLDSMORILE OLDS 98	137.4	5.3	
150	AUDI 4000	137.1	1.1	
150	CHEVROLET EL CAMINO	136.8	1.1 6.1	
160	FORD EXCURSION	136.0	0.0	
161	MITTSIBISHI EXPO	135.6	2.7	
167	RILICK REGAL	135.3	5.9	
163	TOYOTA T100	135.0	4.9	
164	FORD FOCUS	134.6	3.0	
165	BMW 318	132.6	7.0	
166	GMC S/T JIMMY	131.4	9.5	***
167	OLDSMOBILE DELTA 88	131.0	4.5	
168	CHEVROLET R/V PICKUP	130.9	10.3	
100				

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Fatal Vehicle Rates in All Impacts Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

			Fatal	
		Fatal	Vehicle Rate with	
		Vehicle	Rate with	
Obs	Vehicle	Rate	Fire	
169	OLDSMOBILE ALERO FORD CROWN VICTORIA SUBARU XT OLDSMOBILE TORONADO MERKUR SCORPIO FORD EXPLORER VOLKSWAGEN GOLF BUICK LESABRE AUDI 80 NISSAN FRONTIER SATURN SC VOLKSWAGEN QUANTUM CHEVROLET CAPRICE VOLKSWAGEN FOX MITSUBISHI GALANT BUICK ELECTRA INFINITI G20 OLDSMOBILE SILHOUETTE CHEVROLET LUMINA APV SUBARU IMPREZA MERCURY MARQUIS MAZDA 626 SUBARU LEGACY BUICK SOMERSET REGAL BMW 635 SATURN SL NISSAN MAXIMA FERRARI FORD F-SERIES PICKUP HONDA ACCORD FORD TAURUS SUZUKI GRAND VITARA PONTIAC BONNEVILLE BUICK PARK AVENUE MERCURY SABLE GMC YUKON/DENALI FORD AEROSTAR CADILLAC ALLANTE BUICK ROADMASTER CADILLAC FLEETWOOD/LIMO NISSAN VAN PORSCHE 911	130.8	4.8	
170	FORD CROWN VICTORIA	130.6	4.9	
171	SUBARU XT	130.2	9.5	
172	OLDSMOBILE TORONADO	130.0	13.0	
173	MERKUR SCORPIO	129.5	8.4	***
174	FORD EXPLORER	128.9	3.7	***
175	VOLKSWAGEN GOLF	128.9	3.2	
176	BUICK LESABRE	128.2	3.9	
177	AUDI 80	128.2	0.0	
178	NISSAN FRONTIER	128.1	3.0	
179	SATURN SC	128.1	1.0	
180	VOLKSWAGEN QUANTUM	127.8	3.1	
181	CHEVROLET CAPRICE	127.5	6.1	
182	VOLKSWAGEN FOX	127.3	2.6	
183	MITSUBISHI GALANT	126.5	6.1	
184	BUICK ELECTRA	126.1	4.8	
185	INFINITI G20	125.6	1.2	
186	OLDSMOBILE SILHOUETTE	125.6	6.3	
187	CHEVROLET LUMINA APV	124.1	7.6	
188	SUBARU IMPREZA	123.7	3.3	
189	MERCURY MARQUIS	122.9	3.1	
190	MAZDA 626	122.4	3.8	
191	SUBARU LEGACY	122.1	3.5	
192	BUICK SOMERSET REGAL	120.8	4.8	
193	BMW 635	120.6	1.0	
194	SATURN SL	119.2	3.6	
195	NISSAN MAXIMA	110.9	15.0	
196	FERRARI	117.9	7 2	
197	FORD F-SERIES PICKUP	116.0	3 1	
198	HONDA ACCORD	115.4	3.7	
199	FORD TAURUS	115.1	14.4	***
200	SUZUKI GRAND VITARA	114 6	4.2	
201	PONTIAC BONNEVILLE	114.4	4.4	
202	MEDCIDY CARIF	114.4	2.5	
203	CMC VINON/DENALT	112.7	3.7	
204	POPD AFROSTAR	112.4	3.8	
205	CADILLAC ALLANTE	112.3	4.9	
207	BUICK ROADMASTER	112.0	2.6	
208	CADILLAC FLEETWOOD/LIMO	111.7	2.7	
209	NISSAN VAN	111.6	15.9	
210	PORSCHE 911	110.8	16.4	

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Fatal Vehicle Rates in All Impacts
Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001
with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	Vehicle PONTIAC PARISIENNE MAZDA MPV CHEVROLET MALIBU LS OLDSMOBILE CUTLASS FORD BRONCO (FULL SIZE) PONTIAC TRANS SPORT TOYOTA CRESSIDA CHEVROLET ASTRO OLDSMOBILE INTRIGUE VOLKSWAGEN JETTA MAZDA MILLENIA SATURN SW NISSAN ALTIMA MITSUBISHI DIAMANTE TOYOTA TUNDRA ACURA VIGOR GMC R/V PICKUP LAND ROVER RANGE ROVER LINCOLN TOWN CAR CADILLAC DEVILLE ACURA LEGEND MAZDA MIATA GMC SAFARI CADILLAC FLEETWOOD VOLKSWAGEN CABRIOLET BUICK RIVIERA MERCURY MOUNTAINEER BUICK REATTA ACURA CL CHEVROLET TAHOE ISUZU TROOPER AUDI 5000 BMW 23 TOYOTA CAMRY FORD EXPEDITION GMC SUBURBAN JEEP CHEROKEE LINCOLN NAVIGATOR OLDSMOBILE LSS PONTIAC SAFARI ISUZU TROOPER BMW 750	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
211	DOMESTAC PARISTENNE	110.3	6.1	
211	MAZDA MOV	109.8	3.8	
212	CHETHOLET MALTRU IS	109.6	2.1	
213	OLDEWORLLE CUTLASS	109.4	6.8	
214	EODD BRONCO (FILL SIZE)	109.4	8.5	
215	DONDIAC TRANS SPORT	108.9	5.3	
216	MOVOMA CRECETDA	108.6	4.2	
217	CHEMBOLET ASTRO	108.3	2.5	
210	OLDSWORL E INTERCUE	107.8	4.0	
219	UCLUSION INTRIGUE	107.1	2.4	
220	VOLKSWAGEN GELIA	106.8	10.5	
221	CAMITEM CW	106.7	0.0	
222	MICCAN ALCIMA	106.2	2.4	
223	MISSAN ALITHA	105.6	1.2	
224	MOVORA MINURA	105.4	0.0	
225	TOTOTA TUNDRA	105.2	2.7	
226	ACURA VIGOR	105.2	5.8	
227	GMC R/V PICKUP	104.8	9.7	
228	LAND ROVER RANGE ROVER	103.4	3.5	
229	LINCOLN TOWN CAR	102.7	2.8	
230	CADILLAC DEVILLE	102.7	4 3	
231	ACURA LEGEND	102.4	1.6	
232	MAZDA MIATA	102.3	2 9	
233	GMC SAFARI	102.2	2.9	
234	CADILLAC FLEETWOOD	101.3	3.0	
235	VOLKSWAGEN CABRIOLET	101.3	5.0	
236	BUICK RIVIERA	99.0	3.2	***
237	MERCURY MOUNTAINEER	99.4	8.6	
238	BUICK REATTA	97.2	0.0	
239	ACURA CL	97.3	4.7	
240	CHEVROLET TARGE	96.3	2 7	***
241	ISUZU TROOPER	96.3	5 7	
242	AUDI 5000	95.0	3.5	
243	BMW 23	95.7	2.5	
244	TOYOTA CAMRY	91.0	3 7	
245	FORD EXPEDITION	02.2	3.7	
246	GMC SUBURBAN	93.3	4.4	
247	JEEP CHERUKEE	24.7	3 / 3 5 . 1	
248	LINCOLN NAVIGATOR	94.3	0.0	
249	OLUBMOBILE LSS	01.9	3 8	
250	PUNTIAC SAFARI	91.0	3.0	
251	ISUZU TROOPER	91.3	13.0	
252	DC/ WME	91.3	15.0	

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Obs	Vehicle	Fatal Vehicle Rate		
253	CADILLAC ELDORADO JAGUAR XJS/XK8 PONTIAC MONTANA CHEVROLET SUBURBAN CADILLAC SEVILLE OLDSMOBILE BRAVADA LINCOLN CONTINENTAL	91.2	2.9	
254	TACTIAR XIS/XK8	90.2	4.9	
255	PONTI AC MONTANA	89.0	10.3	
256	CHEVROLET SUBURBAN	88.9	3.4	
257	CADILLAC SEVILLE	87.3	2.7	
258	OLDSMOBILE BRAVADA	87.0	7.5	***
259	LINCOLN CONTINENTAL	87.0	3.3	
260	BMW 540	86.6	0.0	
261	BMW 535	85.9	3.5	
262	TOYOTA RAV4	85.7	1.0	***
263	SAAB 900	85.2	5.8	
264	SUBARU SVX	85.1	9.5	
265	BMW 735	84.3	3.0	
266	CHEVROLET VENTURE	84.0	6.7	
267	LEXUS SC300/400	83.8	3.3	
268	PEUGEOT 505	83.6	2.6	
269	INFINITI Q45	83.2	1.3	
270	OLDSMOBILE BRAVADA LINCOLN CONTINENTAL BMW 540 BMW 535 TOYOTA RAV4 SAAB 900 SUBARU SVX BMW 735 CHEVROLET VENTURE LEXUS SC300/400 PEUGEOT 505 INFINITI Q45 MERCEDES BENZ 190 AUDI 90 FORD E-SERIES VAN VOLKSWAGEN PASSAT GMC SAVANA CHEVROLET G-SERIES VAN	80.9	0.9	
271	AUDI 90	79.5	0.0	
272	FORD E-SERIES VAN	79.5	3.7	
273	VOLKSWAGEN PASSAT	78.7	3.2	
274	GMC SAVANA	78.1	2.2	
275	CHEVROLET G-SERIES VAN	76.7	3.4	
276	LEXUS GS300/400	76.4	3.6	
277	OLDSMOBILE AURORA	75.4	1.4	
278	BMW 733	74.3	6.8	
279	CADILLAC CATERA	74.3	3.7	
280	TOYOTA LAND CRUISER	74.2	3.0 4.1	***
281	NISSAN XTERRA	74.2	4.1	
282	AUDI 100	72.4	2.8	
283	VOLKSWAGEN VANAGON	72.2	3.1	
284	MERCURY VILLAGER	72.0	0.0	
285	SATURN LS	71.9	3.0	
286	TOYOTA PREVIA	69.6	2.8	
287 288	TOTOTA AVALON	69.6	0.0	
289	RMW 378	68.7	4.6	
290	INFINITI J30	67.9	0.0	
291	MERCEDES BENZ 560	67.8	13.9	
292	GMC G-SERIES VAN	67.6	2.6	
293	MERCEDES BENZ SL	67.4	4.5	
294	VOLKSWAGEN PASSAT GMC SAVANA CHEVROLET G-SERIES VAN LEXUS GS300/400 OLDSMOBILE AURORA BMM 733 CADILLAC CATERA TOYOTA LAND CRUISER NISSAN XTERRA AUDI 100 VOLKSWAGEN VANAGON MERCURY VILLAGER SATURN LS TOYOTA PREVIA TOYOTA AVALON INFINITI M30 BMW 328 INFINITI J30 MERCEDES BENZ 560 GMC G-SERIES VAN MERCEDES BENZ SL SAAB 9000	67.1	1.9	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001 Fatal Vehicle Rates in All Impacts

		Fatal Vehicle Rate	Fatal Vehicle Rate with	
Obs	Vehicle	Rate	LITE	
295	GMC P-SERIES VAN MERCEDES BENZ 500 BMW 528 BMW 525 FORD WINDSTAR SUBARU FORESTER AUDI VOLVO 244 LEXUS ES250/300 VOLKSWAGEN NEW BEETLE NISSAN QUEST JAGUAR XJ MITSUBISHI SIGMA MERCEDES BENZ CLK VOLVO 760/780 HONDA CR-V MERCEDES BENZ 400/500E MERCEDES BENZ 300 MERCEDES BENZ 300 MERCEDES BENZ 400 MERCEDES BENZ 400 MERCEDES BENZ 400 MERCEDES BENZ 500 MERCEDES BENZ 600 MERCEDES 6	66.1	0.0	
296	MERCEDES BENZ 500	65.6	0.0	
297	BMW 528	65.4	4.3	
298	BMW 525	64.2	3.4	
299	FORD WINDSTAR	64.2	1.3	
300	SUBARU FORESTER	63.5	2.6	***
301	AUDI	63.4	0.0	
302	VOLVO 244	62.1	3.1	
303	LEXUS ES250/300	62.1	4.5	
304	VOLKSWAGEN NEW BEETLE	62.0	3.8	
305	NISSAN QUEST	61.4	2.9	
306	JAGUAR XJ	61.0	2.9	
307	MITSUBISHI SIGMA	60.7	15.2	
308	MERCEDES BENZ CLK	59.5	0.0	
309	VOLVO 760/780	59.3	1.0	
310	HONDA CR-V	58.8	1.9	***
311	MERCEDES BENZ 400/500E	58.5	0.0	
312	MERCEDES BENZ 300	58.4	2.6	
313	MERCEDES BENZ 260	58.4	0.0	
314	INFINITI 130	58.0	1.7	
315	VOLVO 960	57.9	4.5	
316	BMW 740	56.3	9.7	
317	ACURA TL	55.8	1.5	
318	LEXUS LS400	54.7	3.1	
319	AUDI A4	53.9	2.4	
320	BMW 323	53.8	4.1	
321	VOLVO 940	53.2	1.3	
322	VOLKSWAGEN CABRIO	51.4	0.0	
323	PORSCHE BOXSTER	50.1	0.0	
324	MERCEDES BENZ M-SERIES	49.9	2.6	***
325	CHEVROLET P-SERIES VAN	49.1	3.4	
326	VOLVO 740	48.2	1.6	
327	MERCEDES BENZ 420	48.0	4.0	
328	ALFA ROMEO VELOCE	48.0	8.0	
329	MERCEDES BENZ C	47.1	1.1	
330	MERCEDES BENZ E	45.8	0.9	
331	LEXUS RX300	45.7	0.0	***
332	MERCEDES BENZ SLK	45.4	0.0	
333	MERCEDES BENZ 380	43.0	1.8	
334	TOYOTA SIENNA	42.8	1.3	
335	MERCEDES BENZ S	41.9	3.5	
336	VOLVO 240	40.8	1.0	

Note 1: Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee

Note 2: Non-Chrysler Passenger Cars and Light Trucks do not include Chrysler, Dodge, Jeep, Plymouth, Eagle or AMC

Note 3: *** = Non-Chrysler Midsize Compact Utility Vehicles

Fatal Vehicle Rates in All Impacts Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	Vehicle	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
337	TOYOTA SOLARA	40.6	3.7	
338	VOLVO 80 SERIES	39.4	13.1	
339	VOLVO 245	39.2	0.6	
340	VOLVO 850	36.8	0.0	
341	INFINITI OX4	36.4	0.0	***
342	HONDA ODYSSEY	36.3	1.2	
343	ALFA ROMEO SPIDER	35.1	0.0	
344	AUDI A6	34.3	6.2	
345	VOLVO 70 SERIES	30.9	1.3	
346	вмw 530	28.1	0.0	
347	VOLKSWAGEN EUROVAN	27.5	0.0	
348	SAAB 9-3	27.4	0.0	
349	ACURA RL	15.4	3.8	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001 Fatal Vehicle Rates in Rear Impacts

obs.	Vehicle		Fatal Vehicle Rate with Fire	
			2.2	***
1	FORD ESCAPE	16.6	0.0	
2	HYUNDAI TIBURON	16.4	0.0	
3	MAZDA RX7	15.4	3.1	
4	CHEVROLET SPRINT	14.7	0.0	
5	MAZDA GLC	14.3	2.5	
6	MITSUBISHI 3000GT	14.2	5.3	
7	CHEVROLET CORVETTE	13.2	1.3	
8 .	ISUZU STYLUS	13.2	0.0	
9	TOYOTA PASEO	12.9	0.0	
10	HYUNDAI SCOUPE	12.5	0.0	
11	ISUZU IMPULSE	12.4	4.1	
12	VOLKSWAGEN CABRIOLET	11.9	1.0	
13	CHEVROLET CAMARO	11.9	0.8	
14	PORSCHE 928	11.7	0.0	
15	PONTIAC T1000	11.7	1.3	
16	CHEVROLET TRACKER	11.5	0.0	***
17	HYUNDAI ELANTRA	11.4	1.6	
18	CHEVROLET METRO	10.9	0.2	
19	MITSUBISHI STARION	10.8	0.0	
20	NISSAN 300 ZX	10.6	0.5	
21	KIA SEPHIA	10.5	0.0	
22	SUBARU JUSTY	10.4	0.0	
23	FORD MUSTANG	9.8	1.5	
24	CHEVROLET CHEVETTE	9.4	1.9	
25	BMW 530	9.4	0.0	
26	SUZUKI SIDEKICK	9.3	2.8	
27	PONTIAC FIREBIRD	9.1	0.9	
2.8	INFINITI OX4	9.1	0.0	***
29	TOYOTA ECHO	8.9	0.0	
3.0	FORD FESTIVA	8.8	0.3	
31	MITSUBISHI ECLIPSE	8.7	1.6	
32	HYUNDAI ACCENT	8.6	0.0	
33	DATHATSU CHARADE	8.5	0.0	
34	NISSAN 200 SX/240 SX	8.4	1.7	
35	OLDSMOBILE LSS	8.4	0.0	
36	MITSUBISHI VAN	8.3	0.0	
37	VOLKSWAGEN GTI	8.3	0.0	
3.8	MAZDA MX-3	8.0	0.0	
39	ALFA ROMEO VELOCE	8., 0	8.0	
40	VOLKSWAGEN SCIROCCO	8.0	0.0	
41	NISSAN VAN	8.0	4.0	
42	FORD ESCAPE HYUNDAI TIBURON MAZDA RX7 CHEVROLET SPRINT MAZDA GLC MITSUBISHI 3000GT CHEVROLET CORVETTE ISUZU STYLUS TOYOTA PASEO HYUNDAI SCOUPE ISUZU IMPULSE VOLKSWAGEN CABRIOLET CHEVROLET CAMARO PORSCHE 928 PONTIAC T1000 CHEVROLET TRACKER HYUNDAI ELANTRA CHEVROLET METRO MITSUBISHI STARION NISSAN 300 ZX KIA SEPHIA SUBARU JUSTY FORD MUSTANG CHEVROLET CHEVETTE BMW 530 SUZUKI SIDEKICK PONTIAC FIREBIRD INFINITI QX4 TOYOTA ECHO FORD FESTIVA MITSUBISHI ECLIPSE HYUNDAI ACCENT DAIHATSU CHARADE NISSAN 200 SX/240 SX OLDSMOBILE LSS MITSUBISHI VAN VOLKSWAGEN GTI MAZDA MX-3 ALFA ROMEO VELOCE VOLKSWAGEN SCIROCCO NISSAN VAN SUZUKI SAMURAI	8.0	0.0	

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Fatal Vehicle Rates in Rear Impacts
Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	CHEVROLET TRACKER REMAULT ALLIANCE MERCURY MYSTIQUE LINCOLN MARK VII OLDSMOBILE OMEGA GMC CABALLERO CADILLAC CATERA NISSAN 200 SX BUICK SOMERSET REGAL NISSAN SENTRA SUZUKI GRAND VITARA CHEVROLET STORM CHEVROLET STORM CHEVROLET SPECTRUM BMW 23 MAZDA PROTEGE ACURA INTEGRA MERCURY CAPRI MAZDA MILLENIA CHEVROLET CITATION VOLKSWAGEN CORRADO MERCURY TRACER BUICK CENTURY JAGUAR XJS/XK8 HONDA PRELUDE AUDI 4000 INFINITI J30 BUICK SKYLARK FORD PROBE OLDSMOBILE ALERO AUDI TOYOTA MR2 MERCURY TOPAZ MERCURY TOPAZ MERCURY LYNX CHEVROLET FRIZM OLDSMOBILE FIRENZA HONDA CIVIC MERCURY COUGAR FWD FORD ESCORT CHEVROLET NOVA CHEVROLET NOVA CHEVROLET NOVA CHEVROLET CAVALIER TOYOTA SUPRA SUBARU BRAT	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
4.5	OUT DOLLER TRACKER	7 9	1.8	
43	DENNILE ALLTANCE	7.7	1.2	
44	MERCHEY MYCHIOLE	7.7	0.0	
45 46	MERCURI MISITODE	7.6	0.9	
47	OLDENOBLIE OMEGA	7.6	0.0	
48	CMC CARALLERO	7.4	0.0	
49	CADILLAC CATERA	7.4	0.0	
50	NISSAN 200 SX	7.3	1.8	
51	BUICK SOMERSET REGAL	7.2	0.0	
52	NISSAN SENTRA	7.2	0.4	
53	SUZUKI GRAND VITARA	7.2	7.2	***
54	CHEVROLET STORM	7.2	0.0	
55	CHEVROLET SPECTRUM	7.1	0.3	
56	BMW 23	7.1	0.0	
57	MAZDA PROTEGE	7.0	0.0	
58	ACURA INTEGRA	7.0	0.5	
59	MERCURY CAPRI	7.0	0.0	
60	MAZDA MILLENIA	7.0	0.0	
61	CHEVROLET CITATION	6.8	0.0	
62	VOLKSWAGEN CORRADO	6.8	0.0	
63	MERCURY TRACER	6.6	0.3	
64	BUICK CENTURY	6.6	1.6	
65	JAGUAR AJS/ARO	6.6	0.6	
66 67	NUMBER ASSO	6.5	0.0	
68	THEINTET .TSO	6.5	0.0	
69	BUTCK SKALTER	6.4	0.4	
70	FORD DEORE	6.4	0.5	
71	OLDSMOBILE ALERO	6.4	0.0	
72	AUDI	6.3	0.0	
73	TOYOTA MR2	6.3	2.1	
74	MERCURY TOPAZ	6.3	0.2	
75	MERCURY LYNX	6.3	0.0	
76	CHEVROLET PRIZM	6.3	0.3	
77	OLDSMOBILE FIRENZA	6.3	0.0	
78	HONDA CIVIC	6.3	0.3	
79	MERCURY COUGAR FWD	6.2	0.0	
80	FORD ESCORT	6.2	0.1	
81	CHEVROLET NOVA	6.1	0.0	
82	CHEVROLET CAVALIER	6.1	0.2	
83	TOYOTA SUPRA	5.9	0.9	
84	SUBARU BRAT	5.9	0.0	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 Fatal Vehicle Rates in Rear Impacts with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	Vehicle PONTIAC J2000/SUNBIRD PONTIAC PHOENIX ISUZU HOMBRE MITSUBISHI MIRAGE TOYOTA VAN WAGON MAZDA 323 FORD CROWN VICTORIA CHEVROLET BERETTA PONTIAC GRAND AM HYUNDAI SONATA VOLKSWAGEN FOX CHEVROLET CELEBRITY HONDA CR-V CADILLAC CIMARRON OLDSWOBILE SILHOUETTE RENAULT ENCORE PONTIAC FIERO FORD ASPIRE PONTIAC 6000 BUICK SOMERSET MITSUBISHI PRECIS MAZDA MIATA HYUNDAI EXCEL ACURA CL YUGO GV SUZUKI ESTEEM FORD CONTOUR FORD THUNDERBIRD OLDSWOBILE CALAIS LINCOLN NAVIGATOR TOYOTA TERCEL OLDSWOBILE CULLASS CIERA MAZDA MPV CHEVROLET MALIBU LS FORD TEMPO OLDSWOBILE OLDS 98 TOYOTA CELICA MITSUBISHI CORDIA NISSAN PULSAR BUICK LESABRE SATURN SL LEXUS SC300/400	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
85	PONTIAC J2000/SUNBIRD	5.9	0.5	
86	PONTIAC PHOENIX	5.9	0.0	
87	ISUZU HOMBRE	5.9	0.0	
88	MITSUBISHI MIRAGE	5.8	1.2	
89	TOYOTA VAN WAGON	5.8	0.4	
90	MAZDA 323	5.8 /	0.0	
91	FORD CROWN VICTORIA	5.8	1.2	
92	CHEVROLET BERETTA	5.8	0.1	
93	PONTIAC GRAND AM	5.8	0.3	
94	HYUNDAI SONATA	5.7	0.6	
95	VOLKSWAGEN FOX	5./	0.0	
96	CHEVROLET CELEBRITY	5.0	0.0	***
97	HONDA CR-V	5.6	0.9	
98	CADILLAC CIMARRON	5.5	0.0	
100	OLDSMOBILE SILROUEITE	5.5	1.6	
100	BONTIAC FIFRO	5.5	0.8	
101	PORD ASPIDE	5.5	0.0	
102	PONTIAC 6000	5.4	0.4	
103	BUTCK SOMERSET	5.4	0.3	
105	MITSUBISHI PRECIS	5.3	0.0	
106	MAZDA MIATA	5.3	0.0	
107	HYUNDAI EXCEL	5.3	0.4	
108	ACURA CL	5.3	0.0	
109	YUGO GV	5.3	0.0	
110	SUZUKI ESTEEM	5.3	0.0	
111	FORD CONTOUR	5.2	0.0	
112	FORD THUNDERBIRD	5.2	0.9	
113	OLDSMOBILE CALAIS	5.4	0.2	
114	LINCOLN NAVIGATOR	5.1	0.2	
115	TOYOTA TERCEL	5.1	0.3	
116	OLDSMOBILE CUTLASS CIERA	5.0	0.4	
117	CHEMPOLET MALTRIL I.S	5.0	0.4	
110	EUDD AEMBU	5.0	0.2	
120	OLDSMOBILE OLDS 98	5.0	0.1	
121	TOYOTA CELICA	5.0	0.2	
122	MITSUBISHI CORDIA	5.0	2.5	
123	NISSAN PULSAR	5.0	0.3	
124	BUICK LESABRE	5.0	0.4	
125	SATURN SL	4.9	0.2	
126	LEXUS SC300/400	4.9	0.0	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001 Fatal Vehicle Rates in Rear Impacts

Vehicle	Obs	Vehicle	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
128 SATURN LS 4.8 0.0 129 CHEVROLET VENTURE 4.8 0.0 130 VOLKSWAGEN RABBIT 4.8 0.4 131 MAZDA MX-6 4.8 0.4 132 TOYOTA COROLLA 4.8 0.1 133 VOLKSWAGEN VANAGON 4.7 0.0 134 PONTIAC PARISIENNE 4.7 0.4 135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	127	AUDI 100	4.8	0.0	
129 CHEVROLET VENTURE 4.8 0.0 130 VOLKSWAGEN RABBIT 4.8 0.0 131 MAZDA MX-6 4.8 0.4 132 TOYOTA COROLLA 4.8 0.1 133 VOLKSWAGEN VANAGON 4.7 0.0 134 PONTIAC PARISIENNE 4.7 0.4 135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	128	SATURN LS	4.8	0.0	
130 VOLKSWAGEN RABBIT 4.8 0.0 131 MAZDA MX-6 4.8 0.4 132 TOYOTA COROLLA 4.8 0.1 133 VOLKSWAGEN VANAGON 4.7 0.0 134 PONTIAC PARISIENNE 4.7 0.4 135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	129	CHEVROLET VENTURE	4.8	0.0	
131	130	VOLKSWAGEN RABBIT	4.8	0.0	
132 TOYOTA COROLLA 4.8 0.1 133 VOLKSWAGEN VANAGON 4.7 0.0 134 PONTIAC PARISIENNE 4.7 0.1 135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	131	MAZDA MX-6	4.8	0.4	
133 VOLKSWAGEN VANAGON 4.7 0.0 134 PONTIAC PARISIENNE 4.7 0.1 135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	132	TOYOTA COROLLA	4.8	0.1	
134 PONTIAC PARISIENNE 4.7 0.4 135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	133	VOLKSWAGEN VANAGON	4.7	0.0	
135 CHEVROLET CORSICA 4.7 0.1 136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	134	PONTIAC PARISIENNE	4.7	0.4	
136 BUICK REGAL 4.7 0.1 137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	135	CHEVROLET CORSICA	4.7	0.1	
137 CHEVROLET LUMINA 4.6 0.3 138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	136	BUICK REGAL	4.7	0.1	
138 OLDSMOBILE DELTA 88 4.6 0.4 139 ISUZU I-MARK 4.6 0.0	137	CHEVROLET LUMINA	4.6	0.3	
139 ISUZU I-MARK 4.6 0.0	138	OLDSMOBILE DELTA 88	4.6	0.4	
	139	ISUZU I-MARK	4.6	0.0	
140 MERCEDES BENZ 500 4.5 0.0	140	MERCEDES BENZ 500	4.5	0.0	
141 MITSUBISHI TREDIA 4.5 0.0	141	MITSUBISHI TREDIA	4.5	0.0	
142 MERKUR XR4TI 4.5 0.0	142	MERKUR XR4TI	4.5	0.0	
143 PONTIAC GRAND PRIX 4.5 0.4	143	PONTIAC GRAND PRIX	4.5	0.4	
144 PONTIAC LEMANS 4.5 U.4	144	PONTIAC LEMANS	4.5	0.4	
145 SUBARU LOYALE 4.5 0.0	145	SUBARU LOYALE	4.5	0.0	
146 MAZDA 626 4.4 0.4 147 SUBARU IMPREZA 4.3 0.0	146	MAZDA 626	4.4	0.4	
147 SUBARU IMPREZA 4.3 U.U	147	SUBARU IMPREZA	4.3	0.0	
148 BUICK REATTA 4.3 0.0	148	BUICK REATTA	4.3	0.0	
149 FORD LTD 4.3 0.7 150 KIA SPORTAGE 4.3 0.0 ***	149	FORD LTD	4.3	0.7	***
150 KIA SPORTAGE 4.3 0.0	150	KIA SPORTAGE	4.3	0.0	
151 PORSCHE 944 4.2 0.0	151	PORSCHE 944	4.2	4.1	
152 BMW 323 4.1 4.1	152	BMW 323	4.1	0.3	
153 MERCURY COUGAR 4.1 0.3	153	MERCURY COUGAR	4.1	0.3	
154 VOLKSWAGEN GOLF 4.1 0.3	154	VOLKSWAGEN GOLF	4.1	0.3	
155 CHEVROLET CAPRICE 4.1 0.7 156 CADILLAC FLEETWOOD/LIMO 4.1 0.0	155	CHEVROLET CAPRICE	4.1	0.0	
157 CHEVROLET MONTE CARLO 4.1 0.1	155	CHEMPOLET MONTE CARLO	4.1	0.1	
158 OLDSMOBILE INTRIGUE 4.0 0.0	150	OLDSWORLLE INTRIGUE	4.0	0.0	
159 NISSAN QUEST 4.0 0.0	150	NISSAN OHEST	4.0	0.0	
159 NISSAN QUEST 4.0 0.0 160 TOYOTA SIENNA 4.0 0.0	160	TOYOTA SIENNA	4.0	0.0	
161 PONTIAC BONNEVILLE 4.0 0.8	161	PONTIAC BONNEVILLE	4.0	0.8	
162 MITSUBISHI MIGHTY MAX 4.0 0.0	162	MITSUBISHI MIGHTY MAX	4.0	0.0	
163 BUICK ROADMASTER 3.9 0.7	163	BUICK ROADMASTER	3.9	0.7	
164 BMW 325 3.9 0.0	164	BMW 325	3.9	0.0	
165 LINCOLN MARK VIII 3.9 0.0	165	LINCOLN MARK VIII	3.9	0.0	
166 NISSAN MAXIMA 3.9 0.1	166	NISSAN MAXIMA	3.9	0.1	
167 TOYOTA TUNDRA 3.9 0.0	167	TOYOTA TUNDRA	3.9	0.0	
168 VOLVO 940 3.9 0.0	168	VOLVO 940	3.9	0.0	

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Fatal Vehicle Rates in Rear Impacts Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	Vehicle VOLVO 70 SERIES MERCURY MARQUIS BUICK RIVIERA GMC SONOMA PONTIAC SAFARI HONDA ACCORD BMW 318 CADILLAC FLEETWOOD MAZDA 929 SUBARU PONTIAC TRANS SPORT INFINITI G20 OLDSMOBILE ACHIEVA BUICK SKYHAWK ISUZU PICKUP FORD WINDSTAR TOYOTA CAMRY OLDSMOBILE SUPREME MERCEDES BENZ 300 FORD TAURUS MITSUBISHI DIAMANTE MITSUBISHI DIAMANTE LINCOLN TOWN CAR NISSAN PATHFINDER CHEVROLET EL CAMINO MERCEDES BENZ S GMC P-SERIES VAN BUICK ELECTRA TOYOTA AVALON CADILLAC SEVILLE OLDSMOBILE TORONADO MERCEDES BENZ C SATURN SC NISSAN ALTIMA GMC S/T JIMMY MERCURY SABLE ACURA LEGEND NISSAN PICKUP TOYOTA CRESSIDA AUDI A6 CHEVROLET S/T PICKUP BUICK PARK AVENUE	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
169	VOLVO 70 SERIES	3.9	0.0	
170	MERCURY MARQUIS	3.9	0.4	
171	BUICK RIVIERA	3.8	0.6	
172	GMC SONOMA	3.8	0.3	
173	PONTIAC SAFARI	3.8	0.0	
174	HONDA ACCORD	3.8	0.3	
175	BMW 318	3.8	0.0	
176	CADILLAC FLEETWOOD	3.8	0.0	
177	MAZDA 929	3.8	0.0	
178	SUBARU	3.7	0.3	
179	PONTIAC TRANS SPORT	3.7	0.0	
180	INFINITI G20	3.7	0.0	
181	OLDSMOBILE ACHIEVA	3.7	0.9	
182	BUICK SKYHAWK	3.7	0.7	
183	ISUZU PICKUP	3.7	0.2	
184	FORD WINDSTAR	3.6	0.4	
185	TOYOTA CAMRY	3.6	0.1	
186	OLDSMOBILE SUPREME	3.6	0.3	
187	MERCEDES BENZ 300	3.6	0.8	
188	FORD TAURUS	3.6	0.2	
189	MITSUBISHI DIAMANTE	3.6	0.0	
190	MITSUBISHI GALANT	3.5	0.3	
191	LINCOLN TOWN CAR	3.5	0.6	
192	NISSAN PATHFINDER	3.5	0.7	***
193	CHEVROLET EL CAMINO	3.5	0.0	
194	MERCEDES BENZ S	3.5	0.0	
195	GMC P-SERIES VAN	3.5	0.0	
196	BUICK ELECTRA	3.4	0.4	
197	TOYOTA AVALON	3.4	0.0	
198	CADILLAC SEVILLE	3.4	0.0	
199	OLDSMOBILE TORONADO	3.4	0.0	
200	MERCEDES BENZ C	3.4	0.0	
201	SATURN SC	3.2	0.0	
202	NISSAN ALTIMA	3.2	0.2	
203	GMC S/T JIMMY	3.2	0.0	
204	MERCURY SABLE	3.2	0.2	
205	ACURA LEGEND	3.2	0.2	
206	NISSAN PICKUP	3.2	0.0	
207	TOYOTA CRESSIDA	3.1	0.0	
208	AUDI A6	3.1	0.0	
209	CHEVROLET S/T PICKUP	3.1	0.2	
210	AUDI A6 CHEVROLET S/T PICKUP BUICK PARK AVENUE	3.1	0.3	

Note 1: Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee Note 2: Non-Chrysler Passenger Cars and Light Trucks do not include Chrysler, Dodge, Jeep, Plymouth, Eagle or AMC

Note 3: *** = Non-Chrysler Midsize Compact Utility Vehicles

Fatal Vehicle Rates in Rear Impacts
Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001
with 100,000 or more Registered Years from POLK NVPP 1984-2001

		Fatal Vehicle	Fatal Vehicle Rate with	
Obs	Vehicle VOLVO 244 MERCURY VILLAGER TOYOTA RAV4 FORD FOCUS FORD AEROSTAR VOLVO 760/780 VOLKSWAGEN JETTA EMW 735 CHEVROLET IMPALA MAZDA B-SERIES PICKUP SAAB 900 SUBARU LEGACY SAAB 9000 GMC SAFARI OLDSMOBILE AURORA CADILLAC DEVILLE LAND ROVER DISCOVERY SUZUKI SWIFT/SA310 MITSUBISHI EXPO SUBARU FORESTER MERCEDES BENZ E FORD BRONCO II NISSAN STANZA TOYOTA 4 RUNNER MERCEDES BENZ E FORD BRONCO II NISSAN STANZA TOYOTA 4 RUNNER MERCEDES BENZ E FORD BRONCO II NISSAN STANZA TOYOTA 7 FUNNER MERCEDES BENZ E TOYOTA PICKUP OLDSMOBILE BRAVADA CHEVROLET S/T BLAZER TOYOTA PICKUP OLDSMOBILE BRAVADA CHEVROLET ASTRO JAGUAR XJ CHEVROLET TAHOE HONDA ODYSSEY MERCEDES BENZ 190 VOLVO 245 FORD RANGER OLDSMOBILE CUTLASS ISUZU AMIGO	Rate	rire	
211	VOLVO 244	3.1	0.3 0.9	
212	MERCURY VILLAGER	3.1	0.0	***
213	TOYOTA RAV4	3.0	0.0	
214	FORD FOCUS	3.0	0.0	
215	FORD AEROSTAR	3.0	0.0	
216	VOLVO 7607780	3.0	0.3	
217	VOLKSWAGEN JETTA	3.0	0.0	
218	BMW /35	3.0	0.0	
219	CHEVROLET IMPALA	2.0	0.0	
220	MAZDA B-SERIES PICKUP	2.3	0.3	
221	SAAB 900	2.5	0.0	
222	SUBARU LEGACY	2.7	0.0	
223	SAAB 9000	2.3	0.2	
224	GMC SAFARI	2.3	0.0	
225	OLDSMOBILE AURURA	2.0	0.1	
226	CADILLAC DEVILLE	2.7	0.0	***
227	LAND ROVER DISCOVERY	2.7	0.0	
228	SUZUKI SWIFT/SA310	2.7	0.0	
229	MITSUBISHI EXPO	2.7	0.0	***
230	SUBARU FORESTER	2.6	0.0	
231	MERCEDES BENZ E	2.6	0.3	***
232	FORD BRONCO II	2.6	0.5	
233	NISSAN STANZA	2.6	0.2	***
234	TOYOTA 4 RUNNER	2.6	0.0	***
235	MERCEDES BENZ M-SERIES	2.6	0.4	
230	DELICEOU EOE	2.6	1.3	
23/	CUERTOOLET S/T BLATER	2.6	0.4	
230	TOVOTA BICKIE	2.6	0.2	
240	OLDSMOBILE BRAVADA	2.5	0.0	
240	CHECKOLET P-SERIES VAN	2.5	0.8	
241	PORSCHE 911	2.5	2.5	
243	TOYOTA PREVIA	2.4	0.0	
243	CHEVROLET ASTRO	2.4	0.1	
245	JAGUAR XJ	2.4	0.0	
246	CHEVROLET TAHOE	2.4	0.0	
247	HONDA ODYSSEY	2.3	0.0	
248	MERCEDES BENZ 190	2.3	0.0	
249	VOLVO 245	2.3	0.0	
250	FORD RANGER	2.3	0.1	
251	OLDSMOBILE CUTLASS	2.3	0.0	
252	ISUZU AMIGO	2.2	0.0	***

Note 1: Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee

Note 2: Non-Chrysler Passenger Cars and Light Trucks do not include Chrysler, Dodge, Jeep, Plymouth, Eagle or AMC

Note 3: *** = Non-Chrysler Midsize Compact Utility Vehicles

Fatal Vehicle Rates in Rear Impacts
Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001
with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	Vehicle	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
ODS	Veniter			
253	GMC SAVANA	2.2	0.0	***
254	FORD EXPLORER TOYOTA TACOMA	2.2	0.0	• • • •
255	TOYOTA TACOMA	2.1	0.3	
256	CHEVROLET C/K PICKUP	2.1 2.0	0.1	
257	VOLVO 240	2.0	1.0	
258	VOLVO 240 LEXUS ES250/300 VOLVO 850 CHEVROLET LUMINA APV GMC S/T PICKUP	2.0	0.4 0.0	
259	VOLV0 850	2.0	0.0	
260	CHEVROLET LUMINA APV	1.9	0.0	
261	GMC S/T PICKUP	1.9	0.3	
262	VOLKSWAGEN NEW BEETLE	1.9	0.1	
263	FORD E-SERIES VAN	1.9	0.4	
264	CADILLAC ELDORADO	1.9	0.0	
265	GMC YUKON/DENALI	1.9	0.3	
266	JEEP CHEROKEE	1.7	0.0	
267	VOLVO 740	1.0	0.1	
268	GMC C/K PICKUP	1.0	0.2	
269	FORD F-SERIES PICKUP	1.0	0.0	
270	BMW 535	1.0	0.4	
271	ISUZU TROOPER	1.7	0.0	
272	BMW 52 8	1.7	0.0	•
273	INFINITI 130	1.7	0.0	
274	VOLKSWAGEN PASSAT	1.6	0.0	
275	CHEVROLET BLAZER	1.6	0.0	***
276 277	MERCURY MOUNTAINEER	1.5	0.0	
278	CMC C SERIES VAN	1.5	0.0	
278	ACIDA TI.	1.5	0.0	
280	CAMITON CW	1.4	0.0	
281	CMC JIMMY	1.4	0.0	
282	CMC 5/1 FICKLE GMC 5/1 FICKLE FORD E-SERIES VAN CADILLAC ELDORADO GMC YUKON/DENALI JEEP CHEROKEE VOLVO 740 GMC C/K FICKUP FORD F-SERIES PICKUP BMW 535 ISUZU TROOPER BMW 528 INFINITI I30 VOLKSWAGEN PASSAT CHEVROLET BLAZER MERCURY MOUNTAINEER VOLKSWAGEN QUANTUM GMC G-SERIES VAN ACURA TL SATURN SW GMC JIMMY CHEVROLET G-SERIES VAN	1.4	0.2	
283	ISUZU TROOPER	1.4	0.0	***
284	SUBARU XT	1.4	0.0	
285	INFINITI Q45	1.3	0.0	
286	MERCEDES BENZ 420	1.3	0.0	
287	CHEVROLET R/V PICKUP	1.3	0.0	
288	SATURN SW GMC JIMMY CHEVROLET G-SERIES VAN ISUZU TROOPER SUBARU XT INFINITI Q45 MERCEDES BENZ 420 CHEVROLET R/V PICKUP LINCOLN CONTINENTAL BMW 525 GMC S/T JIMMY ISUZU RODEO CHEVROLET SUBURBAN	1.2	0.0	
289	BMW 525	1.1	0.0	
290	GMC S/T JIMMY	1.1	1.1	***
291	ISUZU RODEO	1.1	0.4	***
292	CHEVROLET SUBURBAN	1.1	0.0	
293	TOYOTA LAND CRUISER	1.0	1.0	
294	GMC SUBURBAN	0.9	0.0	

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Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

		Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
	Vehicle			
295	MERCEDES BENZ 560 FORD BRONCO (FULL SIZE) MITSUBISHI MONTERO LEXUS LS400 CHEVROLET S/T BLAZER PORSCHE 924 SUBARU SVX VOLKSWAGEN EUROVAN SAAB 9-3 MERCEDES BENZ SLK FERRARI ALFA ROMEO SPIDER MERCEDES BENZ CLK FORD EXCURSION PORSCHE BOXSTER MITSUBISHI SIGMA SUBARU XT6 BMW 733 BMW 635 VOLVO 80 SERIES BMW 750 MERCEDES BENZ 400/500E	0.9	0.0	
296	FORD BRONCO (FULL SIZE)	0.7	0.0	
297	MITSUBISHI MONTERO	0.6	0.0	***
298	LEXUS LS400	0.5	0.5	
299	CHEVROLET S/T BLAZER	0.4	0.0	***
300	PORSCHE 924	0.0	0.0	
301	SUBARU SVX	0.0	0.0	
302	VOLKSWAGEN EUROVAN	0.0	0.0	
303	SAAB 9-3	0.0	0.0	
304	MERCEDES BENZ SLK	0.0	0.0	
305	FERRARI	0.0	0.0	
306	ALFA ROMEO SPIDER	0.0	0.0	
307	MERCEDES BENZ CLK	0.0	0.0	
308	FORD EXCURSION	0.0	0.0	
309	PORSCHE BOXSTER	0.0	0.0	
310	MITSUBISHI SIGMA	0.0	0.0	
311	SUBARU XT6	0.0	0.0	
312	BMW 733	0.0	0.0	
313	BMW 635	0.0	0.0	
314	VOLVO 80 SERIES	0.0	0.0	•
315	вмw 750	0.0	0.0	
316	MERCEDES BENZ 400/500E	0.0	0.0	
317	TWEINITH M30	0.0	0.0	
318	BMW 540	0.0	0.0	
319	NISSAN AXXESS	0.0	0.0	
320	AUDI 80	0.0	0.0	
321	BWM M3	0.0	0.0	
322	CADILLAC ALLANTE	0.0	0.0	
323	NTSSAN NX	0.0	0.0	
324	MERCEDES BENZ SL	0.0	0.0	
325	MERCEDES BENZ 260	0.0	0.0	
326	VOLKSWAGEN CABRIO	0.0	0.0	
327	MERKUR SCORPIO	0.0	0.0	
328	NISSAN XTERRA	0.0	0.0	***
329	ACURA RL	0.0	0.0	
330	MERCEDES BENZ 400/500E INFINITI M30 BMW 540 NISSAN AXXESS AUDI 80 BMW M3 CADILLAC ALLANTE NISSAN NX MERCEDES BENZ SL MERCEDES BENZ 260 VOLKSWAGEN CABRIO MERKUR SCORPIO NISSAN XTERRA ACURA RL TOYOTA SOLARA STERLING 825 AUDI 90 PONTIAC MONTANA MAZDA NAVAJO ACURA VIGOR OLDSMOBILE BRAVADA	0.0	0.0	
331	STERLING 825	0.0	0.0	
332	AUDI 90	0.0	0.0	
333	PONTIAC MONTANA	0.0	0.0	
334	MAZDA NAVAJO	0.0	0.0	***
335	ACURA VIGOR	0.0	0.0	
336	OLDSMOBILE BRAVADA	0.0	0.0	***

Note 1: Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee
Note 2: Non-Chrysler Passenger Cars and Light Trucks do not include Chrysler, Dodge, Jeep, Plymouth, Eagle or AMC
Note 3: *** = Non-Chrysler Midsize Compact Utility Vehicles

Model Year 1984-2001 Jeep Cherokee and Non-Chrysler Passenger Cars and Light Trucks in Fatal Collisions in FARS 1984-2001 with 100,000 or more Registered Years from POLK NVPP 1984-2001

Obs	Vehicle	Fatal Vehicle Rate	Fatal Vehicle Rate with Fire	
337	AUDI A4	0.0	0.0	
338	LAND ROVER RANGE ROVER	0.0	0.0	
339	BMW 328	0.0	0.0	
340	LEXUS RX300	0.0	0.0	***
341	VOLVO 960	0.0	0.0	
342	BMW 740	0.0	0.0	
	LEXUS GS300/400	0.0	0.0	
343	MERCEDES BENZ 380	0.0	0.0	
344	NISSAN FRONTIER	0.0	0.0	
345		0.0	. 0.0	***
346	HONDA PASSPORT	0.0	0.0	
347	TOYOTA T100	0.0	0.0	
348	GMC R/V PICKUP	0.0	0.0	
349	FORD EXPEDITION	0.0	0.0	

Note 1: Jeep Cherokee includes Jeep Cherokee and Jeep Grand Cherokee

Note 2: Non-Chrysler Passenger Cars and Light Trucks do not include Chrysler, Dodge, Jeep, Plymouth, Eagle or AMC

Note 3: *** = Non-Chrysler Midsize Compact Utility Vehicles

Fatal or Major Injury Rates
Model Year 1984-2001 Midsize Compact Utility Vehicles in Injury Accidents and Police Reported Collisions in Alabama, Arkansas,
Florida, Idaho, Illinois, Iowa, Maryland, Michigan, Nebraska, New York, North Carolina, Ohio, Wisconsin or Wyoming

	Vehicles with Fatal or Major Injury per
Vehicle	1,000 Vehicles
Non-Chrysler Midsize Compact Utility Vehicles Jeep Cherokee	79.0 68.0

Note: Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Post-Collision Fire Rates

Model Year 1984-2001 Midsize Compact Utility Vehicles in Injury Accidents and Police Reported Collisions in Alabama, Arkansas, Florida, Idaho, Illinois, Iowa, Maryland, Michigan, Nebraska, New York, North Carolina, Ohio, Wisconsin or Wyoming

Vehicle	Vehicles with Fire per 1,000 Vehicles		
Non-Chrysler Midsize Compact Utility Vehicles Jeep Cherokee	2.0 1.7		

Note: Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Rear Impact Fatal or Major Injury Rates
Model Year 1984-2001 Midsize Compact Utility Vehicles in Injury Accidents Police Reported Collisions in Alabama, Arkansas,
Florida, Idaho, Maryland, Michigan, Nebraska, North Carolina or Wyoming

	Vehicles with Fatal or Major Injury per
Vehicle	1,000 Vehicles
Non-Chrysler Midsize Compact Utility Vehicles Jeep Cherokee	48.0 47.9

Note: Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.

Rear Impact Post-Collision Fire Rates
Model Year 1984-2001 Midsize Compact Utility Vehicles in Injury Accidents Police Reported Collisions in Alabama, Arkansas,
Florida, Idaho, Maryland, Michigan, Nebraska, North Carolina or Wyoming

Vehicle	Vehicles with Fire per 1,000 Vehicles	-
Non-Chrysler Midsize Compact Utility Vehicles Jeep Cherokee	3.1 2.0	

Note: Non-Chrysler midsize compact utility vehicles do not include Dodge or Jeep vehicles.