

EA12-005

CHRYSLER

2/18/2013

ENCLOSURE 4

ORVR and Fuel Tank  
Summary

# KK ORVR and Fuel Tank Material Data

			Q5 (b)	Q5 (r)
MY	Model	Model Designator	Fuel Tank material type	ORVR (Onboard Refueling Vapor Recovery)
2008	Liberty	KK	HDPE	yes
2009	Liberty	KK	HDPE	yes
2010	Liberty	KK	HDPE	yes

## WK and XK ORVR and Fuel Tank Material Data

			Q5 (b)	Q5 (r)
MY	Model	Model Designator	Fuel Tank material type	ORVR (Onboard Refueling Vapor Recovery)
2005	Grand Cherokee	WK	HDPE	yes
2006	Grand Cherokee	WK	HDPE	yes
	Commander	XK	HDPE	yes
2007	Grand Cherokee	WK	HDPE	yes
	Commander	XK	HDPE	yes
2008	Grand Cherokee	WK	HDPE	yes
	Commander	XK	HDPE	yes
2009	Grand Cherokee	WK	HDPE	yes
	Commander	XK	HDPE	yes
2010	Grand Cherokee	WK	HDPE	yes
	Commander	XK	HDPE	yes

# YJ, TJ and JK ORVR and Fuel Tank Material Data

MY	Model	Model Designator	Q5 (b)	Q5 (r)
			Fuel Tank material type	ORVR (Onboard Refueling Vapor Recovery)
1987	Wrangler	YJ	14.5 gallon=Steel 19 gallon=HDPE	no
1988	Wrangler	YJ		no
1989	Wrangler	YJ		no
1990	Wrangler	YJ		no
1991	Wrangler	YJ	15 gallon=Steel 19 gallon=HDPE	no
1992	Wrangler	YJ		no
1993	Wrangler	YJ		no
1994	Wrangler	YJ		no
1995	Wrangler	YJ		no
<b>no vehicles built this year</b>				
1997	Wrangler	TJ	15 gallon=Steel 19 gallon=HDPE	no
1998	Wrangler	TJ		no
1999	Wrangler	TJ		no
2000	Wrangler	TJ	19 gallon HDPE now std	yes
2001	Wrangler	TJ		yes
2002	Wrangler	TJ		yes
2003	Wrangler	TJ		yes
2004	Wrangler	TJ		yes
2005	Wrangler	TJ		yes
2006	Wrangler	TJ		yes
2007	Wrangler	JK		yes
2008	Wrangler	JK		yes
2009	Wrangler	JK		yes
2010	Wrangler	JK	yes	

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ENCLOSURE 4

Skid Plate

WK\_XK\_KK Subject Peer  
Vehicle Standard Brush Guard  
and Optional Skid Plate data

# WK, XK and KK Subject Peer Vehicle Standard Brush Guard and Optional Skid Plate Data

Item #	Model Year	Model			Standard Brush Guard Part #	Optional Skid Plate Part #
		WK	XK	KK		
1	2005	X	n/a	n/a	52090270AF	52090274AF
2	2006	X	X	n/a	52090270AF	52090274AF
3	2007	X	X	n/a	52090270AF	52090274AF
4	2008	n/a	n/a	X	52129211AH	52125081AD
		X	X	n/a	52090270AF 04578976AA	52090274AF
5	2009	n/a	n/a	X	52129211AH	52125081AE
		X	X	n/a	52090270AF 04578976AA	52090274AF
6	2010	n/a	n/a	X	52129211AH	52125081AE
		X	X	n/a	52090270AF 04578976AA	52090274AF

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Enclosure 5A

Subject Peer Vehicles  
Measurements and Weights

# 2005 - 2010 Grand Cherokee and Commander Subject Peer vehicle Dimensions and Weights

Q 5 (a)				Q 5 (e)	Q 5 (f)	Q 5 (g)		Q 5 (h)		Q 5 (i)		Q 5 (j)	Q 5 (k)	Q 5 (l)			
MY	Model	Model Designator	Engine	overall length of vehicle	wheel base	Track Width		Base Max Curb Weight (lbs/kgs)		GVWR (lbs/kgs)		GAWR (lbs/kgs)		interior volume			
						Front	Width	2WD	4WD	2WD	4WD	Front Gross Axle Weight	Rear Gross Axle Weight	Shoulder front/rear	Head front/rear	Leg front/rear	cargo cu/ft
2005	Grand Cherokee	WK	3.7L	186.7 /474.218	109.5 /278.13	62.0 /157.48	62.0 /157.48	4,150 /1882.408	4,376 /1984.92	5,700/2585.477	5,900/2676.195	2,950 /1338.097	3,650 /1655.612	59.1/58.4	39.7/39.3	41.7/35.5	rear seat up=35 folded=70.8
			4.7L							5,850/2653.515	6,100/2766.913						
			5.7L							n/a	6,150/2789.593						
2006	Grand Cherokee	WK	3.7L	186.7 /474.218	109.5 /278.13	62.0 /157.48	62.0 /157.48	4,288 /1945.004	4,490 /2036.63	5,700/2585.477	5,900/2676.195	2,950 /1338.097	3,650 /1655.612	59.1/58.4	39.7/39.3	41.7/35.5	rear seat up=35 folded=67.4
			4.7L							6,010/2726.09	6,100/2766.913						
			5.7L							6,150/2789.593							
	Commander	XK	3.7L	188.5 /478.79	109.5 /278.13	62.6 /159.004	62.6 /159.004	4,844 /2197.201	5,091 /2309.239	6,200/2812.273	6,400/2902.991	2,950 /1338.097	3,650 /1655.612	row 1=59.0 row 2=58.5 row 3=49.6	row 1=42.1 row 2=40.2 row 3=35.7	row 1=41.7 row 2=36.1 row 3=28.9	rear seat folded 68.5
			5.7L														
2007	Grand Cherokee	WK	3.0L CRD	186.7 /474.218	109.5 /278.13	62.0 /157.48	62.0 /157.48	4,316 /1957.705	6,488 /2942.907	6,010/2726.09	6,150/2789.593	2,950 /1338.097	3,200 /1451.496	59.1/58.4	39.3/39.2	41.7/35.5	rear seat up=35.5 folded=68.5
			3.7L							5,700/2585.477	5,900/2676.195						
			4.7L							6,010/2726.09	6,100/2766.913						
			4.7L FFV														
			5.7L							6,150/2789.593							
	6.1L	6,150/2789.593															
Commander	XK	3.7L	188.5 /478.79	109.5 /278.13	62.6 /159.004	62.6 /159.004	4,643 /2106.029	4,829 /2190.398	6,200/2812.273	6,400/2902.991	2,950 /1338.097	3,650 /1655.612	row 1=59.0 row 2=58.5 row 3=50.6	row 1=42.1 row 2=40.2 row 3=35.7	row 1=41.7 row 2=36.1 row 3=28.9	rear seat folded 68.9	
		4.7L															
		5.7L															
2008	Grand Cherokee	WK	3.0L CRD	186.7 /474.218	109.5 /278.13	62.0 /157.48	62.0 /157.48	4,316 /1957.705	4,488 /2035.723	6,010/2726.09	6,150/2789.593	2,950 /1338.097	3,200 /1451.496	59.1/58.4	39.3/39.2	41.7/35.5	rear seat up=34.5 folded=68.5
			3.7L							5,700/2585.477	5,900/2676.195						
			4.7L							6,010/2726.09	6,150/2789.593						
			5.7L														
	6.1L	6,150/2789.593															
Commander	XK	3.7L	188.5 /478.79	109.5 /278.13	62.6 /159.004	62.6 /159.004	4,643 /2106.029	4,829 /2190.398	6,200/2812.273	6,400/2902.991	2,950 /1338.097	3,650 /1655.612	row 1=59.0 row 2=58.5 row 3=50.6	row 1=42.1 row 2=40.2 row 3=35.7	row 1=41.7 row 2=36.1 row 3=28.9	rear seat folded 69.4	
		4.7L															
		5.7L															
2009	Grand Cherokee	WK	3.0L CRD	186.7 /474.218	109.5 /278.13	62.0 /157.48	62.0 /157.48	4,316 /1957.705	4,488 /2035.723	6,010/2726.09	6,150/2789.593	2,950 /1338.097	3,200 /1451.496	59.1/58.4	39.3/39.2	41.7/35.5	rear seat up=34.5 folded=68.5
			3.7L							5,700/2585.477	5,900/2676.195						
			4.7L							6,010/2726.09	6,150/2789.593						
			5.7L														
	6.1L	6,150/2789.593															
Commander	XK	3.7L	188.5 /478.79	109.5 /278.13	62.6 /159.004	62.6 /159.004	4,643 /2106.029	4,829 /2190.398	6,200/2812.273	6,400/2902.991	2,950 /1338.097	3,650 /1655.612	row 1=59.0 row 2=58.5 row 3=50.6	row 1=42.1 row 2=40.2 row 3=35.7	row 1=41.7 row 2=36.1 row 3=28.9	rear seat folded 69.4	
		4.7L															
		5.7L															
2010	Grand Cherokee	WK	3.7L	186.7 /474.218	109.5 /278.13	62.0 /157.48	62.0 /157.48	4,316 /1957.705	4,488 /2035.723	5,700/2585.477	5,900/2676.195	2,950 /1338.097	3,200 /1451.496	59.1/58.4	39.3/39.2	41.7/35.5	rear seat up=34.5 folded=68.5
			5.7L							6,010/2726.09	6,150/2789.593						
			6.1L							6,150/2789.593							
	Commander	XK	3.7L	188.5 /478.79	109.5 /278.13	62.6 /159.004	62.6 /159.004	4,643 /2106.029	4,829 /2190.398	6,200/2812.273	6,400/2902.991	2,950 /1338.097	3,650 /1655.612	row 1=59.0 row 2=58.5 row 3=50.6	row 1=42.1 row 2=40.2 row 3=35.7	row 1=41.7 row 2=36.1 row 3=28.9	rear seat folded 68.8
4.7L																	
5.7L																	



## 2008 - 2010 Liberty Subject Peer Vehicle Dimensions and Weights

Q5 (a)			Q5 (e)	Q5 (f)	Q5 (g)		Q5 (h)		Q5 (i)		Q5 (j)	Q5 (k)	Q5 (l)			
MY	Model	Model Designator	wheel base	overall length of vehicle	Track Width		Max Curb Weight (lbs/kgs)		GVWR (lbs/kgs) (max)		GAWR (lbs/kgs)		interior volume (cu ft)			
					front	rear	2WD	4WD	2WD	4WD	Front Gross Axle Weight	Rear Gross Axle Weight	Shoulder front/rear	Head front/rear	Leg front/rear	cargo cu/ft
2008	Liberty	KK	106.1/269.494	176.1/447.294	61.0/154.94	61.0/154.94	man =3,980/1805.298 auto =3,985/1807.566	man =4,198/1904.181 auto =4,269/1936.386	5,675/2574.137		2,750 /1247.379	3,200 /1451.496	56.8/56.6	40.4/40.3	40.8/38.8	rear seat up=31.5 folded=64.2
2009	Liberty	KK	106.1/269.494	176.1/447.294	61.0/154.94	61.0/154.94	3,985/1807.566	4,269/1936.386	5,675/2574.137				56.8/56.6	40.4/40.3	40.8/38.8	rear seat up=31.5 folded=64.2
2010	Liberty	KK	106.1/269.494	176.1/447.294	61.0/154.94	61.0/154.94	4,076/1848.843	4,290/1945.911	5,675/2574.137				57.1/56.6	40.4/40.8	40.8/38.2	rear seat up=25.2 folded=60.9

# 1987 - 2010 WRANGLER Subject Peer Vehicle Dimensions and Weights

Q 5 (a)			Q 5 (e)		Q 5 (f)	Q 5 (g)		Q 5 (h)				Q 5 (i)				Q 5 (j)	Q 5 (k)	Q 5 (l)					
MY	Model	Model Designator	overall length of vehicle		wheel base	Track Width		Max Curb Weight (lbs/kgs)				GVWR (lbs/kgs)				GAWR (lbs/kgs)		interior volume					
			Short Wheelbase	Long Wheelbase		Front	Rear	Short Wheelbase models		Long Wheelbase		Short		Long		Front Gross Axle Weight	Rear Gross Axle Weight (max)	Passenger		Rear Rubicon or Unlimiteds	Behind rear seat	cargo volume	
								Manual	Auto	Unlimited	Unlimited Rubicon	Manual	Auto	Unlimited	Unlimited Rubicon			Front	Rear			Rear seat folded & tumbled	Rear seat removed
1987	Wrangler	YJ	152.6 /387.604	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,868/1300.903 6 cyl=3,022/1370.756	n/a	n/a	4 cyl=4,021/1823.895 6 cyl=4,247/1926.407	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.5 Passngs Leg=39.6 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1988	Wrangler	YJ	152.6 /387.604	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,910/1319.954 6 cyl=3,028/1373.478	n/a	n/a	4,075/1848.389	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1989	Wrangler	YJ	152.6 /387.604	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,936/1331.747 6 cyl=3,062/1388.9	n/a	n/a	4 cyl=3,736/1694.621 6 cyl=3,862/1751.774	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=40.3 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1990	Wrangler	YJ	152.6 /387.604	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,936/1331.747 6 cyl=3,062/1388.9	n/a	n/a	2.5L=4,300/1950.447 4.0L=4,300/1950.447	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1991	Wrangler	YJ	152.6 /387.604	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,935/1331.294 6 cyl=3,083/1398.425	n/a	n/a	2.5L=4,300/1950.447 4.0L=4,300/1950.447	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1992	Wrangler	YJ	152.7 /387.898	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=3,075.4/1,395 6 cyl=3,207.7/1,455	n/a	n/a	4,299/1950	n/a	n/a	2,193.6 /995	2,491.2 /1,130			Drvs Soft Top Head=41.4 Passngs Soft Top Head=40.9 Drvs Hard Top head=40.1 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.6 Shoulder=53.07 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=34.9 Shoulder=56.3 Hip=36.0	n/a	13.9	48.1	59.5
1993	Wrangler	YJ	152.6 /387.604	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,935/1331.294 6 cyl=3,080/1397.064	n/a	n/a	4,300/1950.447	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1994	Wrangler	YJ	152 /386.08	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,935/1331.294 6 cyl=3,075/1394.797	n/a	n/a	4,300/1950.447	n/a	n/a	2,500 /1133.981	min =2,606 /1182.062 max =2,700 /1224.699			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=53.1 Hip=53.1	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=56.3 Hip=36.0	n/a	12.5	43.2	53.4
1995	Wrangler	YJ	151.9 /385.826	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=2,943/1331.922 6 cyl=3,085/1399.332	n/a	n/a	4,300/1950.447	n/a	n/a	2,200 /997.9032	2,500 /1133.981			Drvs Soft Top Head=41.4 Passngs Soft Top Head=41.0 Drvs Hard Top head=40.2 Passngs Hard Top Head=40.0 Drvs Leg=39.4 Passngs Leg=39.0 Shoulder=57.5 Hip=53.6	Soft Top Head=40.3 Hard Top head=40.5 Leg=35.0 Shoulder=47.0 Hip=34.5	n/a	12.5	43.2	53.4
no vehicles built this year																							
1997	Wrangler	TJ	151.2 /384.048	n/a	93.4 /237.236	58 /147.32	58 /147.32	4 cyl=3,060/1387.993 6 cyl=3,216/1458.753	n/a	n/a	4,360/1977.663	n/a	n/a	2,200 /997.9032	2,600 /1179.34			Soft Top Head=42.3 Hard Top head=40.9 Leg=41.1 Shoulder=51.9 Hip=51	soft top Head=40.6 hard top head=39.4 Leg=34.9 Shoulder=57.3 Hip=43.5	n/a	Soft Top=11.3 Hard top=10.9	Soft Top=36.9 Hard top=35.7	Soft Top=55.2 Hard top=53.5

# 1987 - 2010 WRANGLER Subject Peer Vehicle Dimensions and Weights

Q 5 (a)			Q 5 (e)		Q 5 (f)	Q 5 (g)		Q 5 (h)				Q 5 (i)				Q 5 (j)	Q 5 (k)		Q 5 (l)						
MY	Model	Model Designator	overall length of vehicle		wheel base	Track Width		Max Curb Weight (lbs/kgs)				GVWR (lbs/kgs)				GAWR (lbs/kgs)		interior volume							
			Short Wheelbase	Long Wheelbase		Front	Rear	Short Wheelbase models		Unlimited	Unlimited Rubicon	Short		Unlimited	Unlimited Rubicon	Front Gross Axle Weight	Rear Gross Axle Weight (max)	Passenger		cargo volume					
								Manual	Auto			Manual	Auto					Front	Rear	Rear Rubicon or Unlimiteds	Behind rear seat	Rear seat folded & tumbled	Rear seat removed		
1998	Wrangler	TJ	152/386.08	n/a	93.4/237.236	58/147.32	58/147.32	SE=3,045 Sport=3,202 Sahara=3,247				n/a	n/a	SE=3,045/1381.189 Sport=3,202/1452.403 Sahara=3,247/1472.814		n/a	n/a	2,200/997.9032	2,600/1179.34	Soft Top Head=42.3 Hard Top head=40.9 Leg=41.1 Shoulder=51.9 Hip=51	soft top Head=40.6 hard top head=39.4 Leg=34.9 Shoulder=57.3 Hip=43.5	n/a	Soft Top=11.5 Hard top=11.1	Soft Top=38.9 Hard top=37.7	Soft Top=55.2 Hard top=53.5
1999	Wrangler	TJ	152/386.08	n/a	93.4/237.236	58/147.32	58/147.32	4 cyl=3,060/1387.993 6 cyl=3,216/1458.753				n/a	n/a	4,450/2018.486		n/a	n/a	2,200/997.9032	2,600/1179.34	Soft Top Head=42.3 Hard Top head=40.9 Leg=41.1 Shoulder=51.9 Hip=51	soft top Head=40.6 hard top head=39.4 Leg=34.9 Shoulder=57.3 Hip=43.5	n/a	Soft Top=11.5 Hard top=11.1	Soft Top=38.9 Hard top=37.7	Soft Top=55.2 Hard top=53.5
2000	Wrangler	TJ	152/386.08	n/a	93.4/237.236	58/147.32	58/147.32	4 cyl=3,094/1403.415 6 cyl=3,299/1496.401				n/a	n/a	4,450/2018.486		n/a	n/a	2,200/997.9032	min =2,600/1179.34 max =2,265/1027.387	Soft Top Head=42.3 Hard Top head=40.9 Leg=41.1 Shoulder=51.9 Hip=51	soft top Head=40.6 hard top head=39.4 Leg=34.9 Shoulder=57.3 Hip=43.5	n/a	Soft Top=11.5 Hard top=11.1	Soft Top=38.9 Hard top=37.7	Soft Top=55.2 Hard top=53.5
2001	Wrangler	TJ	150.1/381.254	n/a	93.4/237.236	58/147.32	58/147.32	4 cyl=3,105/1408.404 6 cyl=3,316/1504.112				n/a	n/a	4,450/2018.486		n/a	n/a	2,200/997.9032	min =2,600/1179.34 max =2,265/1027.387	Soft Top Head=42.3 Hard Top head=40.9 Leg=41.1 Shoulder=51.9 Hip=51	soft top Head=40.6 hard top head=39.4 Leg=34.9 Shoulder=57.3 Hip=43.5	n/a	Soft Top=11.5 Hard top=11.1	Soft Top=38.9 Hard top=37.7	Soft Top=55.2 Hard top=53.5
2002	Wrangler	TJ	152/386.08	n/a	93.4/237.236	58/147.32	58/147.32	4 cyl=3,094/1403.415 6 cyl=3,294/1494.133				n/a	n/a	4,450/2018.486		n/a	n/a	2,200/997.9032	min =2,200/997.9032 max =2,265/1027.387	Soft Top Head=42.3 Hard Top head=40.9 Leg=41.1 Shoulder=51.9 Hip=51	soft top Head=40.6 hard top head=39.4 Leg=34.9 Shoulder=57.3 Hip=43.5	n/a	Soft Top=11.5 Hard top=11.1	Soft Top=38.9 Hard top=37.7	Soft Top=55.2 Hard top=53.5
2003	Wrangler	TJ	155.4/394.716	n/a	93.4/237.236	58/147.32	58/147.32	4 cyl=3,235/1467.371 6 cyl=3,418/1550.379				n/a	n/a	4,450/2018.486		n/a	n/a	2,200/997.9032	min =2,650/1202.02 max =2,700/1224.699	Head=41.9 Leg=40 Shoulder=50.8	Head=40.9 Leg=35.3 Shoulder=57.3	n/a	Soft Top=9.1 Hard top=8.9	Soft Top=42.7 Hard top=41.5	Soft Top=55 Hard top=53.8
2004	Wrangler	TJ	155.4/394.716	n/a	93.4/237.236	58/147.32	58/147.32	4 cyl=3,231/1465.557 6 cyl=3,418/1550.379				n/a	n/a	4,450/2018.486		n/a	n/a	2,200/997.9032	min =2,650/1202.02 max =2,700/1224.699	Soft Top Head=42.5 Hard Top head=41.3 Leg=40.9 Shoulder=50.8 Hip=51.8	soft top Head=40.6 hard top head=39.5 Leg=35.3 Shoulder=57.3 Hip=42.7	n/a	Soft Top =11.9 Hard Top =11.6	Soft Top=25.4 Hard Top=24.2	Soft Top=47.1 Hard Top =46.8
2005	Wrangler	TJ	std=155.5/394.97 Rubicon =156.1/396.494	167/424.18	std=93.4/237.236 long =103.4/262.636	SE/Unlim =58/147.32 Rubicon =59.5/148.59	SE/Unlim =58/147.32 Rubicon =59.5/148.59	4 cyl=3,231/1465.557 6 cyl=3,418/1550.379				6 cyl=3,730/1691.9	4,450/2018.486	4,600/2086.525	2,200/997.9032	min =2,650/1202.02 max =2,700/1224.699	std Soft Top Head=42.5 Unlim Soft Top head=42.2/107.188 Leg=40.9 Shoulder=50.8 Hip=51.8	Soft Top Head=41.3 Hard Top head=39.5 std Leg=35.3 Shoulder=57.3 Hip=42.7	Soft Top head=42.2 Leg=37 Shoulder=57.3 Hip=42.7	std Soft Top =11.9 std Hard Top =11.6 Unlim=29.5	Soft Top=25.4 Hard Top=24.2 Unlim=64	Soft Top=47.1 Hard Top=46.8			
2006	Wrangler	TJ	155.4/394.716	Unlim =171/434.34 Rubicon =171.7/436.118	std=93.4/237.236 long =103.4/262.636	SE =57.8/146.812 Rubicon =58.5/148.59 Unlim =58.4/148.336 Unlim Rubicon =58.5/148.59	SE/Unlim =58.5/148.59 Rubicon =59.5/151.13	4 cyl=3,259/1478.258 6 cyl=3,447/1563.533				6 cyl=3,677/1667.859	4,450/2018.486	4,600/2086.525	2,200/997.9032	min =2,650/1202.02 max =2,700/1224.699	std Soft Top Head=42.5 std Hard Top head=39.7 Unlim Soft Top head=42.2/107.188 Unlim Hard Top head=40.4/102.616 Leg=40.9 Shoulder=50.8 Hips=51.8	Soft Top Head=41.3 Hard Top head=39.5 std Leg=35.3 Shoulder=57.3 Hip=42.7	Soft Top head=41 Hard Top head=40.2 Leg=37 Shoulder=57.3 Hip=42.7	Soft Top =11.9 Hard Top =11.6	Soft Top=25.4 Hard Top=24.2	Soft Top=47.1 Hard Top=46.8			
2007	Wrangler	JK	163.8/416.052	184.4/468.376	2 Dr=95.4/242.316 4 Dr=116/294.64	61.9/157.226	61.9/157.226	2 Dr=3,782/1715.486				2WD=4,032/1828.884 4WD=4,231/1919.149	4,576/2075.639	5,585.7/2533.631	2,650/1202.02	min =2,750/1247.379 max =3,200/1451.496	Head=41.3 Leg=41.0 Shoulder=55.8 Hip=55.6	2 Dr Head=40.3 2 Dr Leg=35.6 2 Dr Shoulder=61.6 2 Dr Hip=44.7	4 Dr Head=40.3 4 Dr Leg=37.2 4 Dr Shoulder=56.8 4 Dr Hip=56.7	2 Dr=17.2 4 Dr=46.4	2 Dr=61.2 2 Dr folded=56.5 4 Dr folded=82	n/a			
2008	Wrangler	JK	163.8/416.052	184.4/468.376	2 Dr=95.4/242.316 4 Dr=116/294.64	61.9/157.226	61.9/157.226	2 Dr=3,782/1715.486				2WD=4,032/1828.884 4WD=4,231/1919.149	4,668.7/2117.687	5,510.2/2499.385	2,650/1202.02	min =3,000/1360.777 max =3,200/1451.496	Head=41.3 Leg=41.0 Shoulder=55.8 Hip=55.6	2 Dr Head=40.3 2 Dr Leg=35.6 2 Dr Shoulder=61.6 2 Dr Hip=44.7	Head=40.3 4 Dr Leg=37.2 4 Dr Shoulder=56.8 4 Dr Hip=56.7	2 Dr=17.2 4 Dr=46.4	2 Dr=61.2 2 Dr folded=56.5 4 Dr folded=82	n/a			
2009	Wrangler	JK	163.8/416.052	184.4/468.376	2 Dr=95.4/242.316 4 Dr=116/294.64	61.9/157.226	61.9/157.226	2 Dr=3,842/1742.70				2WD=4,032/1828.884 4WD=4,231/1919.149	4,663.4/2115.283	5,638.6/2557.626	2,650/1202.02	min =3,000/1360.777 max =3,200/1451.496	Head=41.3 Leg=41.0 Shoulder=55.8 Hip=55.6	2 Dr Head=40.3 2 Dr Leg=35.6 2 Dr Shoulder=61.6 2 Dr Hip=44.7	4 Dr Head=40.3 4 Dr Leg=37.2 4 Dr Shoulder=56.8 4 Dr Hip=56.7	2 Dr=17.2 4 Dr=46.4	2 Dr=61.2 2 Dr folded=56.5 4 Dr folded=82	n/a			
2010	Wrangler	JK	163.8/416.052	184.4/468.376	2 Dr=95.4/242.316 4 Dr=116/294.64	61.9/157.226	61.9/157.226	2 Dr=3,849/1745.877				2WD=4,032/1828.884 4WD=4,231/1919.149	5,000/2267.962	5,500/2494.758	2,775/1258.719	min =3,000/1360.777 max =3,200/1451.496	Head=41.3 Leg=41.0 Shoulder=55.8 Hip=55.6	Head=40.3 2 Dr Leg=44.7 2 Dr Shoulder=61.6 2 Dr Hip=44.7	Head=40.3 4 Dr Leg=37.2 4 Dr Shoulder=56.8 4 Dr Hip=56.7	2 Dr=17.2 4 Dr=46.4	2 Dr=61.2 2 Dr folded=56.5 4 Dr folded=82	n/a			

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Enclosure 5C

Subject Peer Vehicle Compo

## Rear Tank, Subject Peer Vehicle Component Proximity Measurements

Item #	Model Year	Brand	Model	VIN#	Q (5m)	Q (5n)	Q (5o)	Q (5p)
					Horizontal distance (inches) from the aft most point of the rear axle to forward most point of fuel tank	Horizontal distance (inches) from the aft most point of the fuel tank to the aft most point of the rear bumper	Vertical distance from the bottom/lower most surface of the Fuel tank to the bottom/lower most surface of the bumper at center line. (Minus = below bumper positive = above bumper)	Vertical distance (inches) from the ground to the bottom of the rear bumper at the centerline position
					inch/cm	inch/cm	inch/cm	inch/cm
1	1987	Jeep	YJ Wrangler	2BCHL81KQHR [REDACTED]	2.4375/6.19125	2.6875/6.8263	-6.0625/-15.39875	18.25/46.355
2	thru			2J4FY39E7K [REDACTED]	2.8125/5.54355	2.5625/6.50875	-6.1875/-15.71625	18.5/46.99
3	1990			2J4FY29T8L [REDACTED]	2.1875/5.55625	2.8125/7.14375	-6/-15.24	16.75/42.545
4	1991			2J4FY19P7NJ [REDACTED]	2.125/5.3975	2.625/6.6675	-6.29626/-15.9925	18.5/46.99
5	thru			1J4FY2954PP [REDACTED]	2.125/5.3975	4.125/10.4775	-3/-7.62	14/35.56
6	1993			1J4FY49S7PP [REDACTED]	2.125/5.3975	2.9375/7.46125	-6.3125/-16	18.25/46.355
7	1994 & 1995			1J4FY19P7SP [REDACTED]	1/2.54	2.5/6.35	-6.4375/-16.35125	18.75/47.625
8	1997 thru 2006		TJ Wrangler	CAD Analysis	0.6/1.524	7.1/18.034	-5/-12.7	P215/75R15 14.9/37.846  P245/75R16 16.3/41.402

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Enclosure 6C

VC Summary for YJ, TJ, JK,

KK, WK, XK public

**1987-1995 MY Wrangler (YJ), 1997-2006 Wrangler (TJ), 2007-2010 Wrangler(JK),  
2005-2010 Grand Cherokee, 2006-2010 Commander (XK), 2008-2010 Liberty (KK)  
FMVSS 301 Rear Test History**

VC #	Test Date	Vehicle Tested	Purpose of Test	Results
<b>1987-1995 Wrangler (YJ)</b>				
AM1746	3/6/1984		1987 301 Development	Unsuccessful
AM1931	5/23/1985		1987 301 Development	Successful
AM1933	7/29/1985		1987 301 Development	Successful
AM1963	2/10/1986	1986 YJ, 20 gal. tank, 2.5L I-4, manual	1987 301 Certification	Successful
AM1964	2/12/1986	1986 YJ, 15 gal steel tank, 2.5L, manual	1987 301 Certification	Successful
AM1972	2/21/1986		1987 Development	Unsuccessful
AM1973	2/22/1986		1987 301 Development	Unsuccessful
AM1974	2/26/1986		1987 301 Development	Unsuccessful
AM1983	5/9/1986	1987 YJ, 20 gal. tank, 4.0L, auto.	1987 301 other - Production Validation.	Successful
AM2022	10/10/1986		1987 301 other - Production Validation.	Successful
VC04009	1/12/1990	1989 YJ modified to represent 1991 production level YJ with 20 Gal plastic tank and swing away spare.	1991 301 Validation	Successful
VC04861	6/17/1993		1997 301 Development	Successful

**1987-1995 MY Wrangler (YJ), 1997-2006 Wrangler (TJ), 2007-2010 Wrangler(JK),  
2005-2010 Grand Cherokee, 2006-2010 Commander (XK), 2008-2010 Liberty (KK)  
FMVSS 301 Rear Test History**

VC #	Test Date	Vehicle Tested	Purpose of Test	Results
<b>1997-2006 Wrangler (TJ)</b>				
VC05195	7/15/1994		1997 301 Development	Unsuccessful
VC05454	5/25/1995		1997 301 Development	Unsuccessful
VC05455	4/22/1995		1997 301 Development	Unsuccessful
VC05552	8/5/1995		1997 301 Development	Unsuccessful
VC05599	8/24/1995		1997 301 Development	Successful
VC05613	9/13/1995		1997 301 Development	Successful
VC05645	10/10/1995		1997 301 Development	Unsuccessful
VC05734	12/7/1995		1997 301 Development	Unsuccessful
VC05764	12/20/1995		1997 301 Development	Unsuccessful
VC05769	12/23/1995	1997 TJ PVP Pilot, 19.0 gal tank, mod. fuel & vent	1997 301 Validation	Successful
VC06110	9/13/1996		1997 301 Validation [Mule]	Unsuccessful
VC06267	1/16/1997		1997 301 Validation	Successful
VC06268	1/16/1997		1997 301 Validation	Successful
VC06311	2/17/1997		1997 301 Validation	Unsuccessful
VC06442	5/21/1997	1998 TJ C1 Pilot, 19.0 gal tank (4.0 L Auto)	1998 301 Compliance	Successful
VC06675	10/29/1997		1999 301 Development	Successful
VC06683	10/28/1997		1999 301 Development	Successful
VC06728	12/10/1997		1999 301 Development	Successful
VC06888	3/31/1998	1999 TJ C1 Pilot, 19.0 gal., 1999 prod. Intent frame	1999 301 Compliance	Successful
VC07148	9/19/1998		2000 301 Development	Successful
VC07576	5/28/1999	2000 TJ fuel tank w/ Alfmeier Rollover valve, conductive plastic fuel fill bezel. 19.0 gal, 4.0L, auto	2000 301 Compliance	Successful
VC08775	9/21/2000		2003 301 Development	Unsuccessful
VC09166	5/3/2001		2003 301 Development	Successful.
VC09768	4/16/2002		2003 301 Development	Successful
VC09782	4/25/2002	2003 TJ, 2.4 L, Manual, reinforced swing gate	2003 301 Compliance	Successful
VC09797	4/25/2002	2003 TJ, 4.0 L, Manual	2003 301 Compliance	Successful
VC10807	6/20/2003		2004 301 Development	Successful
VC11258	11/13/2003		2004 301 Development	Unsuccessful
VC11283	11/18/2003		2004 301 Development	Successful
VC11438	2/6/2004		2005 301 Development	Successful
VC11755			2005 301 Development	Successful
VC11792	6/16/2004	2005 TJ, 4.0 L, Auto.	2005 301 Compliance	Successful
VC11829	6/25/2004	2005 TJ, 4.0 L, Auto.	2005 301 Compliance	Successful



**1987-1995 MY Wrangler (YJ), 1997-2006 Wrangler (TJ), 2007-2010 Wrangler(JK),  
2005-2010 Grand Cherokee, 2006-2010 Commander (XK), 2008-2010 Liberty (KK)  
FMVSS 301 Rear Test History**

VC #	Test Date	Vehicle Tested	Purpose of Test	Results
<b>2007-2010 Wrangler (JK)</b>				
VC11929	9/3/2004		2007 301 Development	Unsuccessful
VC12716	10/3/2005		2007 301 Development	Successful
VC12852	11/21/2005		2007 301 Development	Successful
VC13058	2/15/2006		2008 301 Development	Successful
VC13067	3/1/2006		2008 301 Development	Successful
VC13127	3/14/2006		2008 301 Development	Successful
VC13387	5/12/2006	2008 JK, 3.8L, Auto, 4WD	2008 301 Compliance	Successful
VC13389	5/4/2006	2007 JK, 3.8L, Auto, 4WD With new control module	2008 301 Compliance	Successful
VC13391	5/4/2006	2007 JK, 3.8L, Auto, 4WD	2007 301 Compliance	Successful
VC13642	6/25/2006		2008 301 Development	Unknown - tested without Stoddard Fluid - N/A
VC14330	2/13/2007		2008 301 Development	Unknown
VC15095	1/29/2008		2008 301 Development	Unknown

**1987-1995 MY Wrangler (YJ), 1997-2006 Wrangler (TJ), 2007-2010 Wrangler(JK),  
2005-2010 Grand Cherokee, 2006-2010 Commander (XK), 2008-2010 Liberty (KK)  
FMVSS 301 Rear Test History**

VC #	Test Date	Vehicle Tested	Purpose of Test	Results
<b>2005-2010 Grand Cherokee (WK)</b>				
VC07937	11/18/1999		2004 301 Development - 50 mph right rear offset	Successful
VC09958	7/18/2002		2005 301 Development - 50 mph left rear offset	Unknown - tested without Stoddard Fluid - N/A
VC10342	12/3/2002		2005 301 Development - 50 mph rear offset barrier devel.	Unknown - tested without Stoddard Fluid - N/A
VC10811	6/26/2003		2005 301 Development - 50 mph rear offset	Successful
VC10833	10/1/2003		2005 301 Development - full rear 30 mph	Successful
VC11089	10/9/2003		2005 Deformable barrier devel - Full rear 35 mph	Successful
VC11231	11/26/2003		2005 301 Development - 50 mph left rear offset	Successful
VC11307	1/28/2004		2005 301 Development - 50 mph right rear offset	Successful
VC11514	3/25/2004		2005 301 Development - 50 mph right rear offset	Unknown - tested without Stoddard Fluid - N/A
VC11545	4/7/2004		2005 301 Development - 50 mph right rear offset	Unsuccessful
VC11732	5/17/2004		2005 301 Development - 50 mph right rear offset	Successful
VC11822	6/17/2004	2005 WK, 4.7L, Auto, modified	2005 301 Compliance - Offset left rear	Successful
VC12590	5/25/2005		2006 301 - Development Offset left rear	Successful
VC13241	3/23/2006		2008 301 - Development Offset left rear	Successful
VC13916	9/11/2006	2007.5 WK, NAFTA Diesel, Auto	2008 301 Compliance	Successful

**1987-1995 MY Wrangler (YJ), 1997-2006 Wrangler (TJ), 2007-2010 Wrangler(JK),  
 2005-2010 Grand Cherokee, 2006-2010 Commander (XK), 2008-2010 Liberty (KK)  
 FMVSS 301 Rear Test History**

VC #	Test Date	Vehicle Tested	Purpose of Test	Results
<b>2006-2010 Commander (XK)</b>				
VC11938	9/8/2004		2006 301 Development	Successful
VC12003	12/13/2014		2006 301 Development	Successful
VC12139	1/13/2005		2006 301 Development	Successful
VC12244	2/14/2005		2006 301 Development	Successful
VC12454	4/12/2005	2006 XK, 5.7L, Auto, Trailer Hitch	2006 301 Compliance	Successful
VC12923	1/3/2006	2006 XK, 5.7L, Auto Modified to 2007 21.1 gal. fuel tank and associated fuel lines, new fuel filler tube with welded cap and larger cup.	2007 301 Compliance	Successful
VC13242	3/23/2006		2008 301 Development	Successful

**1987-1995 MY Wrangler (YJ), 1997-2006 Wrangler (TJ), 2007-2010 Wrangler(JK),  
 2005-2010 Grand Cherokee, 2006-2010 Commander (XK), 2008-2010 Liberty (KK)  
 FMVSS 301 Rear Test History**

VC #	Test Date	Vehicle Tested	Purpose of Test	Results
<b>2008-2010 Liberty (KK)</b>				
VC13873	9/11/2006		2008 301 Development	Unknown
VC13896	9/19/2006		2008 301 Development	Successful
VC13903	9/29/2006		2008 301 Development	Successful
VC14515	4/28/2007	2008 KK, 3.7L, Auto	2008 301 Compliance	Successful