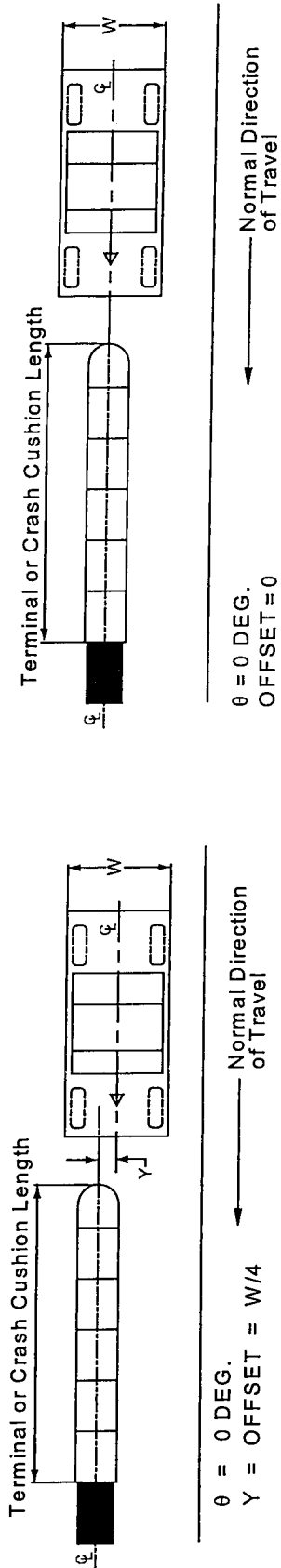


TABLE 2-3. Recommended Test Matrices for Terminals and Crash Cushions (continued)

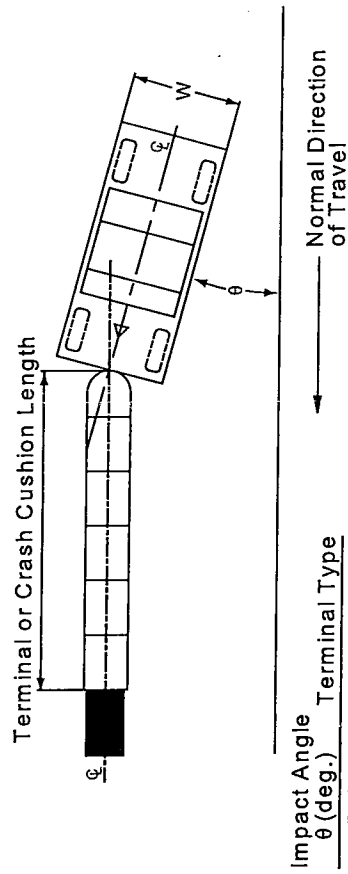
Test Level	Feature	Feature Type ^a	Test No.	Vehicle	Impact Speed, ^b mph (km/h)	Impact Angle, ^b θ, deg.	Impact Tolerances		Impact Point	Evaluation Criteria ^c	
							Measure ^d	Acc. Range, kip-ft (kJ)		Gating	Non-Gating
3	Terminals and Redirective Crash Cushions	G/NG	3-30	1100C	62 (100.0)	0	KE	≥288 (390)	(e)	C,D,F,H,I,N	A,D,F,H,I
		G/NG	3-31	2270P	62 (100.0)	0	KE	≥594 (806)	(e)	C,D,F,H,I,N	A,D,F,H,I
		G/NG	3-32	1100C	62 (100.0)	5–15	KE	≥288 (390)	(e)	C,D,F,H,I,N	A,D,F,H,I
		G/NG	3-33	2270P	62 (100.0)	5–15	KE	≥594 (806)	(e)	C,D,F,H,I,N	A,D,F,H,I
		G/NG	3-34	1100C	62 (100.0)	15	IS	≥19 (26)	(e,g)	C,D,F,H,I,N	A,D,F,H,I
		G/NG	3-35	2270P	62 (100.0)	25	IS	≥106 (144)	(e)	A,D,F,H,I	A,D,F,H,I
		G/NG	3-36	2270P	62 (100.0)	25	IS	≥106 (144)	(e,g)	A,D,F,H,I	A,D,F,H,I
		G/NG	3-37a	2270P	62 (100.0)	25	IS	≥106 (144)	(e)	C,D,F,H,I,N	A,D,F,H,I
			3-37b	1100C				≥51 (69.7)			
	G/NG	3-38	1500A	62 (100.0)	0	KE	≥392 (532)	(e)	C,D,F,H,I,N	A,D,F,H,I	
	Non-redirective Crash Cushions	G	3-40	1100C	62 (100.0)	0	KE	≥105 (142)	(f)	C,D,F,H,I,N	
		G	3-41	2270P	62 (100.0)	0	KE	≥216 (294)	(f)	C,D,F,H,I,N	
		G	3-42	1100C	62 (100.0)	5–15	KE	≥465 (631)	(f)	C,D,F,H,I,N	
		G	3-43	2270P	62 (100.0)	5–15	KE	≥105 (142)	(f)	C,D,F,H,I,N	
		G	3-44	2270P	62 (100.0)	20	KE	≥216 (294)	(f)	C,D,F,N	
G		3-45	1500A	62 (100.0)	0	KE	≥392 (532)	(f)	C,D,F,H,I,N		

- a G/NG—Test applicable to gating and non-gating devices. G—Test applicable to gating devices.
b See Section 2.1.2 for tolerances on impact conditions.
c See Table 5-1.
d See Equations 2-1 and 2-2.
e See Figure 2-3A for impact point.
f See Figure 2-3B for impact point.
g See Section 2.3.3 for impact point.



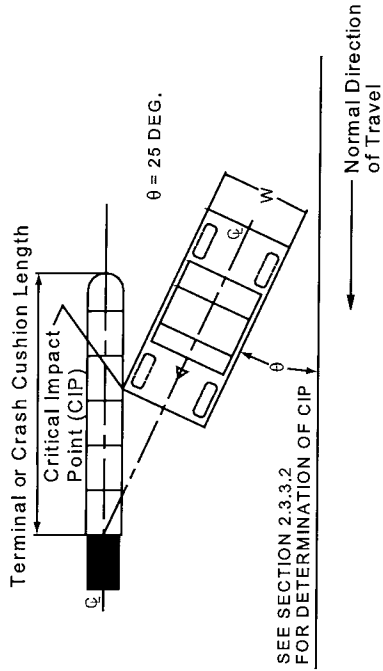
TEST 30

TESTS 31 AND 38

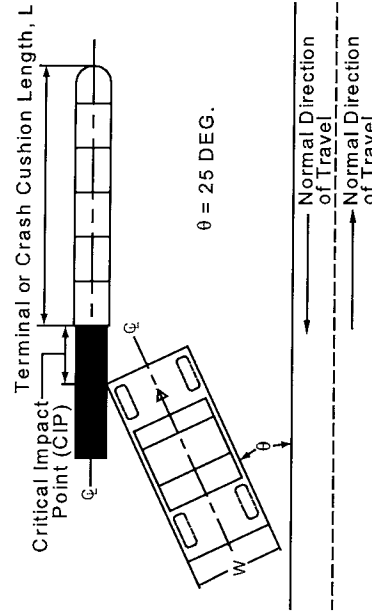


TESTS 32 AND 33

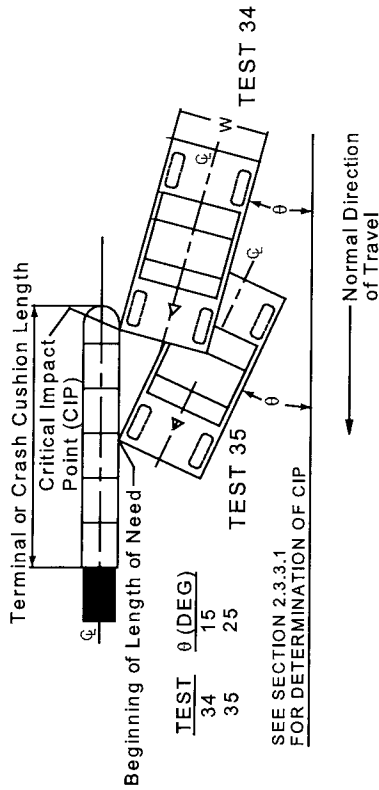
Figure 2-3A. Impact Conditions for Terminal and Redirective Crash Cushion Tests



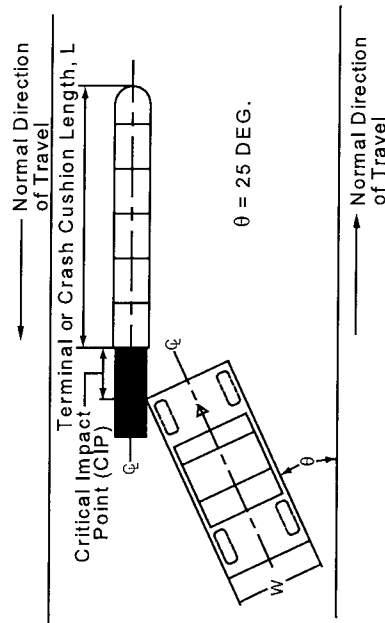
TEST 36



TEST 37 (FOR ROADSIDE DEVICE)



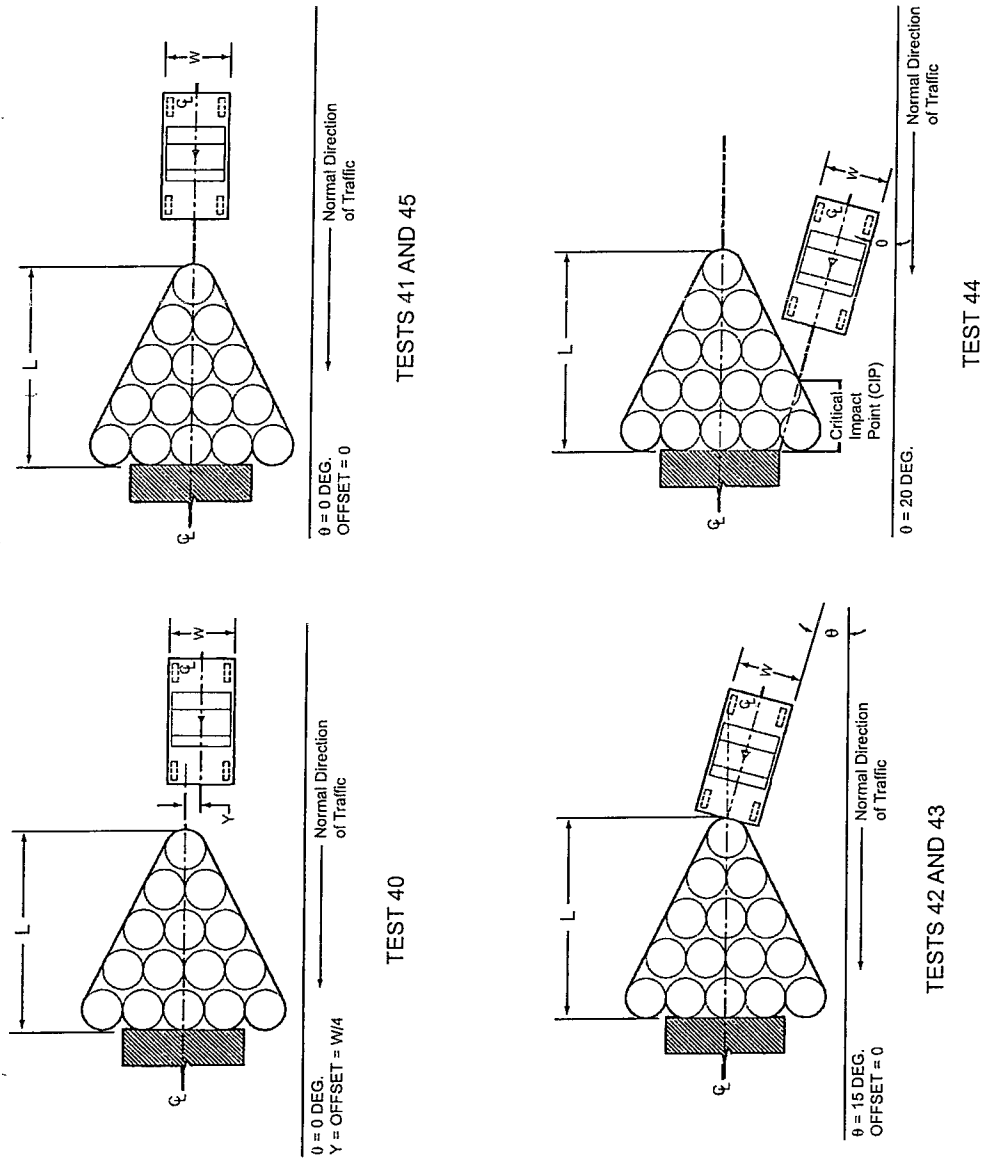
TEST 34 AND 35



TEST 37 (FOR MEDIAN DEVICE)

NOTE: Recommended Tolerance on Impact Point in All Side Impacts = $\pm 300 \text{ mm}$

Figure 2-3A. Impact Conditions for Terminal and Redirctive Crash Cushion Tests (continued)



NOTE: Recommended Offset Tolerance for All Tests = $\pm 0.05(W)$

Figure 2-3B. Impact Conditions for Non-Redirective Crash Cushion Tests