

(6) *Speed indications.* The dynamometer speed display shall have a range of 0-60 mph, and a resolution and accuracy of at least 1 mph.

(7) *Safety interlock.* A roll speed sensor and safety interlock circuit shall be provided which prevents the application of the roll brakes and upward lift movement at any roll speed above 0.5 mph.

(b) The dynamometer shall produce the load speed relationships specified in paragraphs (III) and (V) of appendix B to this subpart.

(III) *Transient Emission Test Equipment*
[Reserved]

(IV) *Evaporative System Purge Test Equipment*
[Reserved]

(V) *Evaporative System Integrity Test Equipment* [Reserved]

[57 FR 52987, Nov. 5, 1992, as amended at 58 FR 59367, Nov. 9, 1993]

APPENDIX E TO SUBPART S OF PART 51—
TRANSIENT TEST DRIVING CYCLE

(I) *Driver's trace.* All excursions in the transient driving cycle shall be evaluated by the procedures defined in §86.115-78(b)(1) and §86.115(c) of this chapter. Excursions exceeding these limits shall cause a test to be void. In addition, provisions shall be available to utilize cycle validation criteria, as described in §86.1341-90 of this chapter, for trace speed versus actual speed as a means to determine a valid test.

(II) *Driving cycle.* The following table shows the time speed relationship for the transient IM240 test procedure.

Second	MPH
0	0
1	0
2	0
3	0
4	0
5	3
6	5.9
7	8.6
8	11.5
9	14.3
10	16.9
11	17.3
12	18.1
13	20.7
14	21.7
15	22.4
16	22.5
17	22.1
18	21.5
19	20.9
20	20.4
21	19.8
22	17
23	14.9
24	14.9
25	15.2

Second	MPH
26	15.5
27	16
28	17.1
29	19.1
30	21.1
31	22.7
32	22.9
33	22.7
34	22.6
35	21.3
36	19
37	17.1
38	15.8
39	15.8
40	17.7
41	19.8
42	21.6
43	23.2
44	24.2
45	24.6
46	24.9
47	25
48	25.7
49	26.1
50	26.7
51	27.5
52	28.6
53	29.3
54	29.8
55	30.1
56	30.4
57	30.7
58	30.7
59	30.5
60	30.4
61	30.3
62	30.4
63	30.8
64	30.4
65	29.9
66	29.5
67	29.8
68	30.3
69	30.7
70	30.9
71	31
72	30.9
73	30.4
74	29.8
75	29.9
76	30.2
77	30.7
78	31.2
79	31.8
80	32.2
81	32.4
82	32.2
83	31.7
84	28.6
85	25.1
86	21.6
87	18.1
88	14.6
89	11.1
90	7.6
91	4.1
92	0.6
93	0
94	0
95	0
96	0
97	0
98	3.3
99	6.6

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Second	MPH	Second	MPH
100	9.9	174	47.2
101	13.2	175	47.4
102	16.5	176	47.9
103	19.8	177	48.5
104	22.2	178	49.1
105	24.3	179	49.5
106	25.8	180	50
107	26.4	181	50.6
108	25.7	182	51
109	25.1	183	51.5
110	24.7	184	52.2
111	25.2	185	53.2
112	25.4	186	54.1
113	27.2	187	54.6
114	26.5	188	54.9
115	24	189	55
116	22.7	190	54.9
117	19.4	191	54.6
118	17.7	192	54.6
119	17.2	193	54.8
120	18.1	194	55.1
121	18.6	195	55.5
122	20	196	55.7
123	20.7	197	56.1
124	21.7	198	56.3
125	22.4	199	56.6
126	22.5	200	56.7
127	22.1	201	56.7
128	21.5	202	56.3
129	20.9	203	56
130	20.4	204	55
131	19.8	205	53.4
132	17	206	51.6
133	17.1	207	51.8
134	15.8	208	52.1
135	15.8	209	52.5
136	17.7	210	53
137	19.8	211	53.5
138	21.6	212	54
139	22.2	213	54.9
140	24.5	214	55.4
141	24.7	215	55.6
142	24.8	216	56
143	24.7	217	56
144	24.6	218	55.8
145	24.6	219	55.2
146	25.1	220	54.5
147	25.6	221	53.6
148	25.7	222	52.5
149	25.4	223	51.5
150	24.9	224	50.5
151	25	225	48
152	25.4	226	44.5
153	26	227	41
154	26	228	37.5
155	25.7	229	34
156	26.1	230	30.5
157	26.7	231	27
158	27.3	232	23.5
159	30.5	233	20
160	33.5	234	16.5
161	36.2	235	13
162	37.3	236	9.5
163	39.3	237	6
164	40.5	238	2.5
165	42.1	239	0
166	43.5		
167	45.1		
168	46		
169	46.8		
170	47.5		
171	47.5		
172	47.3		
173	47.2		

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