



WINDSHIELD DEFROSTING SYSTEMS PERFORMANCE REQUIREMENTS — TRUCKS, BUSES, AND MULTIPURPOSE VEHICLES — SAE J382

SAE Recommended Practice

Report of Body Engineering Committee and Automotive Safety Committee approved January 1971.

1. Scope—This SAE Recommended Practice presents minimum defrosting system performance requirements for trucks, buses, and multipurpose vehicles when tested according to SAE J381.

It is the intent that this performance standard will be reviewed and revised to reflect technological progress in vehicle defroster systems.

2. Definitions

2.1 Daylight Opening (DLO)—The term "daylight opening" (DLO) refers to the maximum unobstructed opening through any glass aperture, with reveal or garnish moldings adjoining the glazing surface installed according to a given direction or projection.

2.2 Other uniform terminology for the windshield defroster system may be found in paragraph 2 of SAE J381.

3. General Performance Requirements—The windshield area to be defrosted was developed to be compatible with vision requirements necessary to operate trucks, buses, and multipurpose vehicles. The area is based on SAE J941 and SAE J826, with certain modifications to accom-

modate the wide variety of conditions encountered in these vehicles. For the purpose of this recommended practice, the head turn consideration in SAE J941 will not be used.

3.1 Area to be Defrosted—The windshield area that shall be defrosted is described by the use of three specific areas identified in Table 1 as areas A, B, and C. Each area has been established using the angles of Table 2 applied as shown in Fig. 1. In the side view, the upper and

TABLE 1

Windshield Type	Minimum Percent to be Defrosted		
	Area A	Area B	Area C
One-Piece	80	94	99
Multipiece	65	70	84

TABLE 2

Classification	F Dim	Area	Angle Up, deg	Angle Down, deg	Angle Left, deg	Angle Right, deg
Truck, CBE and CAE ^a	0-40	A	10	5	18	56
		B	5	3	14	53
		C	5	3	10	15
	40-50	A	8	7	18	56
		B	3	5	14	53
		C	3	3	10	15
50-Up	A	6	9	18	56	
	B	1	7	14	53	
	C	1	5	10	15	
Buses, CBE—School and Commercial ^b	50-60	A	7.5	22	22	62
		B	3	22	22	62
		C	1	16	22	15
Buses, Forward Control—School and Commercial	50-60	A	7	14	18	65
		B	2	11	18	65
		C	1	11	18	25
Forward Control or Multipurpose	All	A	9	7	18	56
		B	4	4	14	53
		C	2	2	10	15
Light Duty Utility Vehicle ^a	All	A	7	5	16	49
		B	4	3	13	49
		C	4	2	8	13
Van, Multistop ^a	Open	A	7	12	18	58
		B	2	11	15	56
		C	1	6	10	15
Trucks, COE	40-Up	A	6	9	18	56
		B	1	7	14	53
		C	1	5	10	15
Miscellaneous						

NOTES: See SAE J687 for nomenclature. Angles are minimum.
^a Specifications also cover passenger carrying derivatives.
^b Geometric center of eyellipse located 18 in from centerline of vehicle.

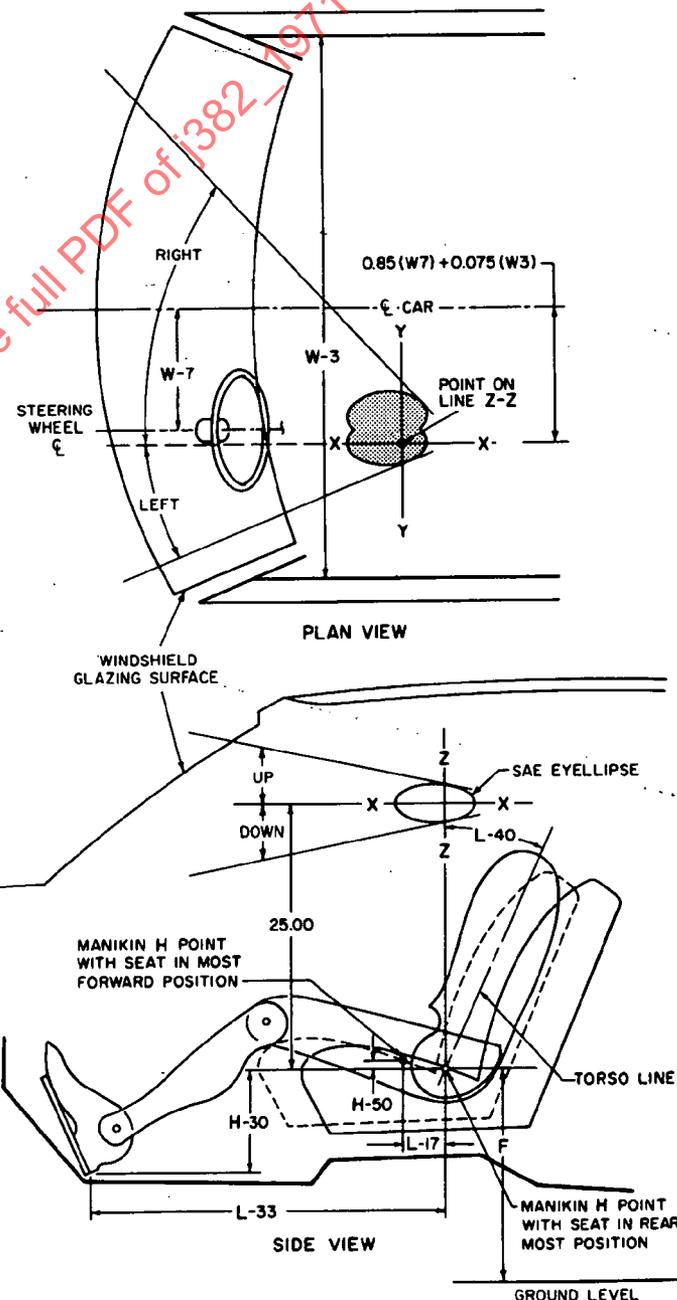


FIG. 1—EYELLIPSE TEMPLATE LOCATION