

A Product of the
Cooperative Engineering Program

SAE J615 JUL85

Engine Mountings

SAE Standard
Revised July 1985

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Submitted for Recognition as
an American National Standard

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J615 JUL85

RATIONALE:

The revision to J615b includes adding metric dimensions and adding tolerances to all dimensions.

REFERENCE SECTION:

SAE J616, Engine Food Mounting (Front and Rear)

SAE J617, Engine Flywheel Housings

APPLICATION

Defines engine mounting dimensions for industry standardization and interchangeability.

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HIGHWAY VEHICLE STANDARD

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SAE J615

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Superseding J615b

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ENGINE MOUNTINGS

1. **SCOPE:** This SAE Standard defines engine mounting dimensions for industry standardization and interchangeability. Table 1 and Fig. 1 are dimensions for arm type mountings. Table 2 and Fig. 2 are for side pad mountings. For engine housing SAE flange dimensions, see SAE J617. For engine foot type mountings (front and rear), see SAE J616.

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TABLE 1 - ARM TYPE MOUNTING DIMENSIONS - mm (in) - Refer to Fig. 1

SAE ARM NO.	A	B	C	D	E	R	R	M
TOLERANCE	± 0.25 (0.010)	± 0.25 (0.010)	± 3.18 (0.12)	± 0.25 (0.010)	± 0.25 (0.010)	± 0.25 (0.010)	MAX	± 6.35 (0.25)
1	298.45 (11.750)	339.73 (13.375)	365.13 (14.375)	50.80 (2.000)	76.20 (3.000)	19.84 (0.781)	11.2 (0.44)	101.6 (4.00)
3	285.75 (11.250)	311.15 (12.250)	327.03 (12.875)	63.50 (2.500)	76.20 (3.000)	16.66 (0.656)	6.4 (0.25)	88.9 (3.50)
4	285.75 (11.250)	311.15 (12.250)	327.03 (12.875)	63.50 (2.500)	76.20 (3.000)	16.66 (0.656)	6.4 (0.25)	69.8 (2.75)
5	285.75 (11.250)	311.15 (12.250)	327.03 (12.875)	63.50 (2.500)	76.20 (3.000)	16.66 (0.656)	6.4 (0.25)	69.8 (2.75)
2I	254.0 (10.000)	276.23 (10.875)	298.45 (11.750)	76.20 (3.000)	76.20 (3.000)	16.66 (0.656)	6.4 (0.25)	101.6 (4.00)

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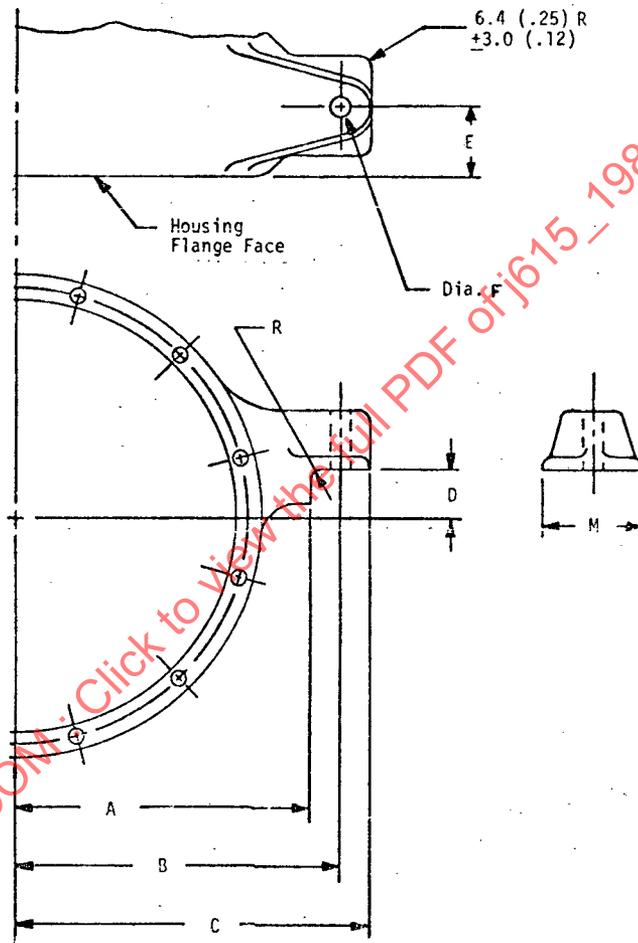


FIG. 1 - ARM TYPE MOUNTING DIMENSIONS

TABLE 2 - SIDE PAD MOUNTING DIMENSIONS - mm (in)
 FLAT OR LOCATING LEDGE TYPE - Refer to Fig. 2

SAE PAD NO(1)	A		C		D		E		TAPPED HOLE SIZE (2)	F	G	R
	+0.25 (0.010)	---	+0.25 (0.010)	---	+0.25 (0.010)	---	+0.25 (0.010)	---				
00	---	---	---	---	---	---	---	---	---	---	---	---
0	88.90 (3.500)	---	19.05 (0.750)	25.40 (1.000)	368.30 (14.500)	---	---	---	5/8-11	19.05 (0.750)	381.30 (15.01)	1.3 (0.05)
1/2	88.90 (3.500)	---	19.05 (0.750)	25.40 (1.000)	330.20 (13.000)	---	---	---	5/8-11	19.05 (0.750)	343.20 (13.51)	1.3 (0.05)
1	63.50 (2.500)	88.90 (3.500)	15.88 (0.625)	44.45 (1.750)	285.75 (11.250)	---	---	---	5/8-11	19.05 (0.750)	298.75 (11.76)	1.3 (0.05)
2	63.50 (2.500)	88.90 (3.500)	15.88 (0.625)	44.45 (1.750)	260.35 (10.250)	---	---	---	1/2-13	15.87 (0.625)	269.85 (10.63)	1.3 (0.05)
3	50.80 (2.000)	66.68 (2.625)	15.88 (0.625)	42.88 (1.688)	260.35 (10.250)	---	---	---	1/2-13	15.87 (0.625)	269.85 (10.63)	0.8 (0.03)
4	50.80 (2.000)	66.68 (2.625)	15.88 (0.625)	42.88 (1.688)	212.72 (8.375)	---	---	---	1/2-13	15.87 (0.625)	222.22 (8.88)	0.8 (0.03)
5	50.80 (2.000)	66.68 (2.625)	15.88 (0.625)	42.88 (1.688)	212.72 (8.375)	---	---	---	1/2-13	15.87 (0.625)	222.22 (8.88)	0.8 (0.03)
6	50.80 (2.000)	66.68 (2.625)	15.88 (0.625)	42.88 (1.688)	187.32 (7.375)	---	---	---	1/2-13	15.87 (0.625)	196.82 (7.78)	0.8 (0.03)

1. Pads of a given number can be matched with housings of the same SAE number or smaller size (larger SAE number).

2. Tapped holes shall be threaded in accordance with UNC Class 2B tolerances of ANSI B1.1, threads. The minimum length of thread engagement shall be 1.5 times the nominal diameter for gray iron housings and 2 times the nominal diameter for aluminum housings.