

**Engine Mountings**

**1. Scope**—This SAE Standard defines engine mounting dimensions for industry standardization and interchangeability. Table 1 and Figure 1 are dimensions for arm type mountings. Table 2 and Figure 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.

**1.1 Rationale**—The Powertrain Systems Group has been unable to convene a group of subject matter experts to perform the 5 year content review of this document. Under these circumstances, it is recommended that this Standard be cancelled.

**2. References**

**2.1 Applicable Publications**—The following publications form a part of this document to the extent specified herein. Unless otherwise specified, the latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J616—Engine Foot Mounting (Front and Rear)

SAE J617—Engine Flywheel Housings

**TABLE 1A—ARM TYPE MOUNTING DIMENSIONS—REFER TO FIGURES 1 AND 2**

SAE Arm No. Tolerance	A mm ±0.25	A in ±0.010	B mm ±0.25	B in ±0.010	C mm ±3.18	C in ±0.12	D mm ±0.25	D in ±0.010
1	298.45	11.750	339.73	13.375	365.13	14.375	50.80	2.000
3	285.75	11.250	311.15	12.250	327.03	12.875	63.50	2.500
4	285.75	11.250	311.15	12.250	327.03	12.875	63.50	2.500
5	285.75	11.250	311.15	12.250	327.03	12.875	63.50	2.500
2T	254.0	10.000	276.23	10.875	298.45	11.750	76.20	3.000

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TABLE 1B—ARM TYPE MOUNTING DIMENSIONS—REFER TO FIGURES 1 AND 2

SAE Arm No. Tolerance	E mm ±0.25	E in ±0.010	F mm ±0.25	F in ±0.010	R mm Max	R in Max	M mm ±0.25	M in ±6.35
1	76.20	3.000	19.84	0.781	11.2	0.44	4.00	101.6
3	76.20	3.000	16.66	0.656	6.4	0.25	3.50	88.9
4	76.20	3.000	16.66	0.656	6.4	0.25	2.75	69.8
5	76.20	3.000	16.66	0.656	6.4	0.25	2.75	69.8
2T	76.20	3.000	16.66	0.656	6.4	0.25	4.00	101.6

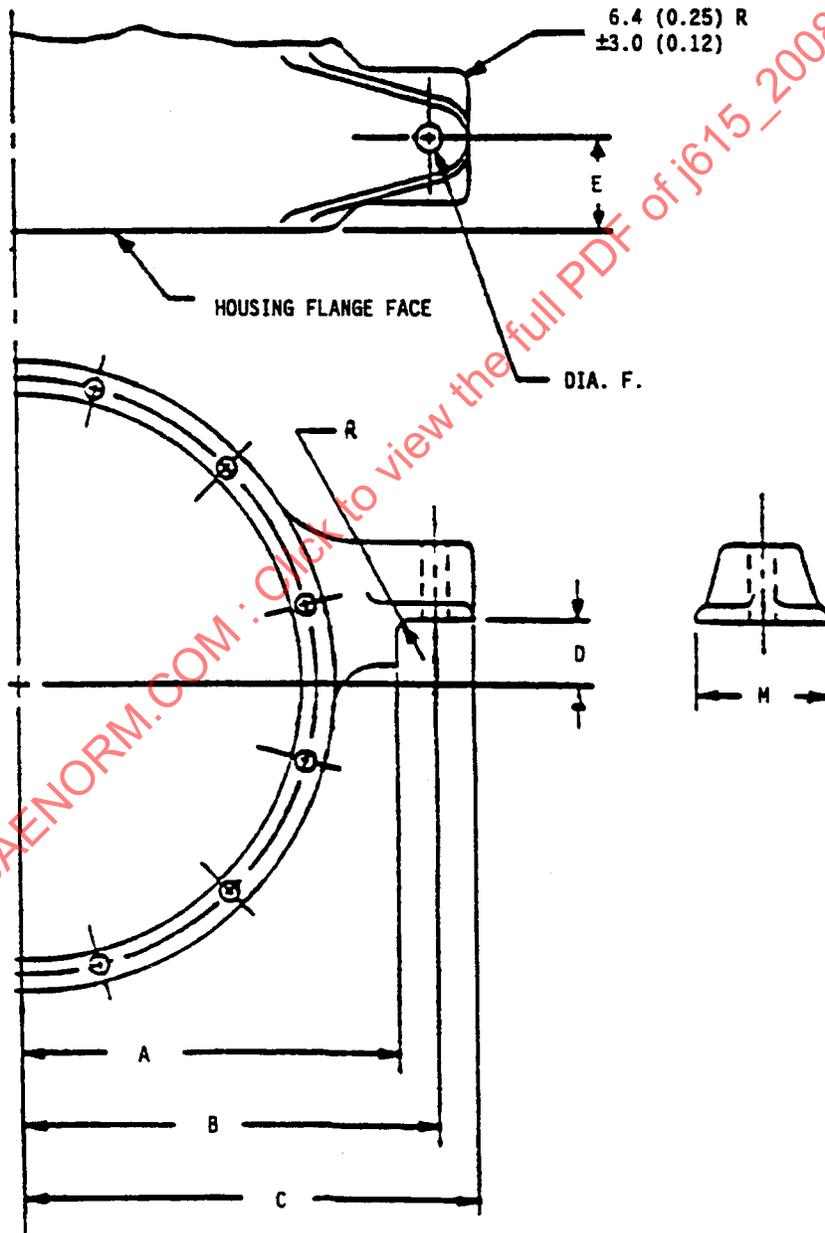


FIGURE 1—ARM TYPE MOUNTING DIMENSIONS

SAE J615 Cancelled JUL2008

TABLE 2A—SIDE PAD MOUNTING DIMENSIONS FLAT OR LOCATING LEDGE TYPE—REFER TO FIGURE 2

SAE PAD No. <sup>(1)</sup> Tolerance	A mm ±0.25	A in ±0.010	B mm ±0.25	B in ±0.010	C mm ±0.25	C in ±0.010	D mm ±0.25	D in ±0.010
00	—	—	—	—	—	—	—	—
0	88.90	3.500	114.30	4.500	19.05	0.750	25.40	1.000
1/2	88.90	3.500	114.30	4.500	19.05	0.750	25.40	1.000
1	63.50	2.500	88.90	3.500	15.88	0.625	44.45	1.750
2	63.50	2.500	88.90	3.500	15.88	0.625	44.45	1.750
3	50.80	2.000	66.68	2.625	15.88	0.625	42.88	1.688
4	50.80	2.000	66.68	2.625	15.88	0.625	42.88	1.688
5	50.80	2.000	66.68	2.625	15.88	0.625	42.88	1.688
6	50.80	2.000	66.68	2.625	15.88	0.625	42.88	1.688

TABLE 2B—SIDE PAD MOUNTING DIMENSIONS FLAT OR LOCATING LEDGE TYPE—REFER TO FIGURE 2

SAE Pad No. <sup>(1)</sup> Tolerance	E mm ±0.25	E in ±0.010	Tapped Hole Size <sup>(2)</sup>	F mm ±0.25	F in ±0.010	G mm ±3.18	G in ±0.12	R mm Max	R in Max
00	—	—	—	—	—	—	—	—	—
0	368.30	14.500	5/8–11	19.05	0.750	381.30	15.01	1.3	0.05
1/2	330.20	13.000	5/8–11	19.05	0.750	343.20	13.51	1.3	0.05
1	285.75	11.250	5/8–11	19.05	0.750	298.75	11.76	1.3	0.05
2	260.35	10.250	1/2–13	15.87	0.625	269.85	10.63	1.3	0.05
3	260.35	10.250	1/2–13	15.87	0.625	269.85	10.63	0.8	0.03
4	212.72	8.375	1/2–13	15.87	0.625	222.22	8.88	0.8	0.03
5	212.72	8.375	1/2–13	15.87	0.625	222.22	8.88	0.8	0.03
6	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.