

Starting Motor Mountings—SAE J542c

SAE Recommended Practice
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400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096



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The purpose of this report is to provide standardized dimensions for mounting starting motors.

It is recommended that a full register diameter having a minimum depth of 0.100 in (2,54) be provided in the flywheel housing to insure proper control of gear center distance and clearance between pitch diameters. The clearance between the starting motor pilot diameter and the register diameter in the flywheel housing should be 0.001 in (0,03) minimum to 0.010 in (0,25) maximum.

Test noted with an asterisk in Figs. 1, 2, and 3, should not exceed root radius of pinion in order to provide clearance for the flywheel.

The face of the starting motor mounting flange should be relieved at its junction with the pilot diameter to avoid mounting interference with flywheel housing.

Dimensional units—inch (millimeters).

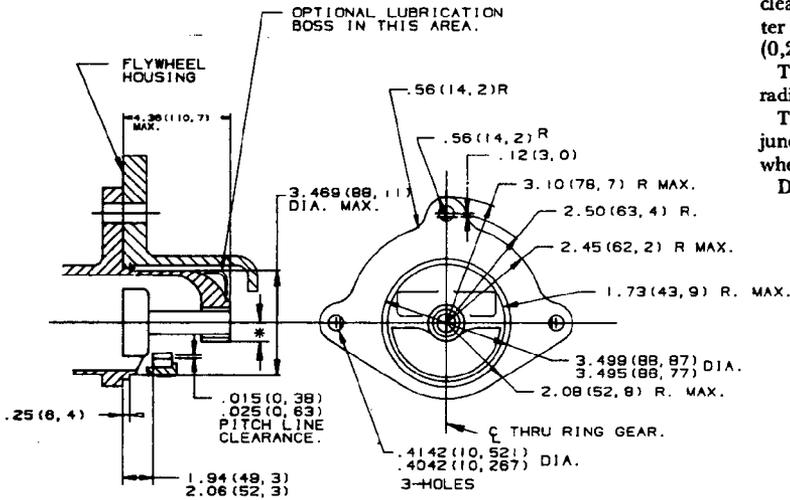


FIG. 1—TYPE NO. 1 MOUNTING FLANGE MEDIUM DUTY

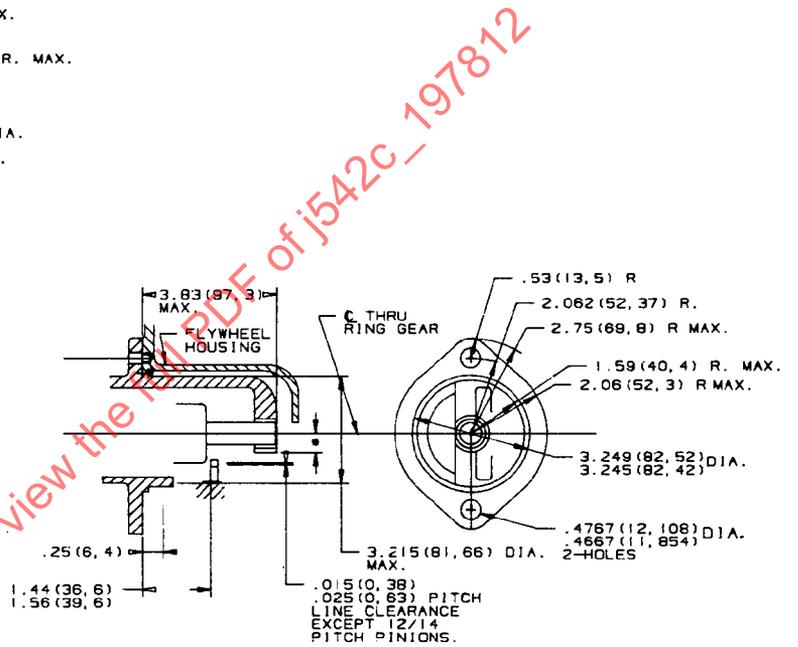


FIG. 3—TYPE NO. 4 MOUNTING FLANGE LIGHT DUTY

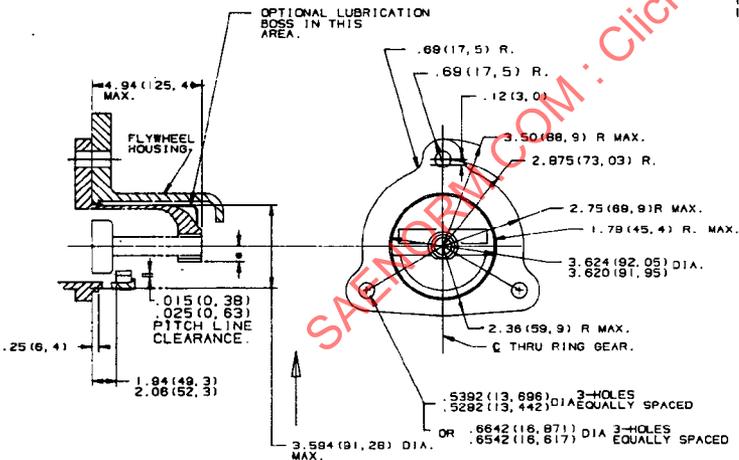


FIG. 2—TYPE NO. 3 MOUNTING FLANGE HEAVY DUTY

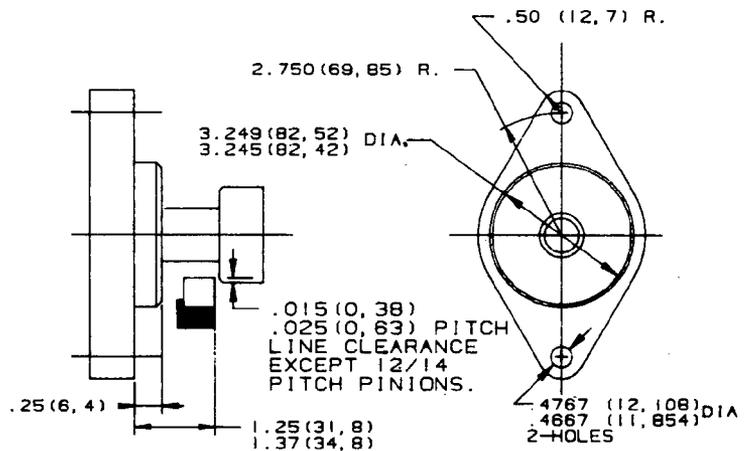


FIG. 4—TYPE NO. 5 MOUNTING FLANGE LIGHT DUTY

NOTE: TYPE NO. 2 MOUNTING FLANGE SAME AS NO. 3 EXCEPT 0.4142 (10,521)/0.4042 (10,267) MOUNTING HOLES.