

(R) STARTING MOTOR MOUNTINGS

1. **Scope**—The purpose of this SAE Recommended Practice is to provide standardized dimensions for mounting starting motors. (See Figures 1 through 4.)

It is recommended that a full register diameter having a minimum depth of 2.54 mm (0.100 in) 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 0.03 mm (0.001 in) minimum to 0.25 mm (0.010 in) maximum.

Text noted with an asterisk in Figures 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.

For backlash allowance between the pinion and ring gear refer to SAE J543.

Dimensional units—millimeter (inch)

2. **References**

- 2.1 **Applicable Publication**—The following publication forms a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

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

SAE J543—Starting Motor Pinions and Ring Gears

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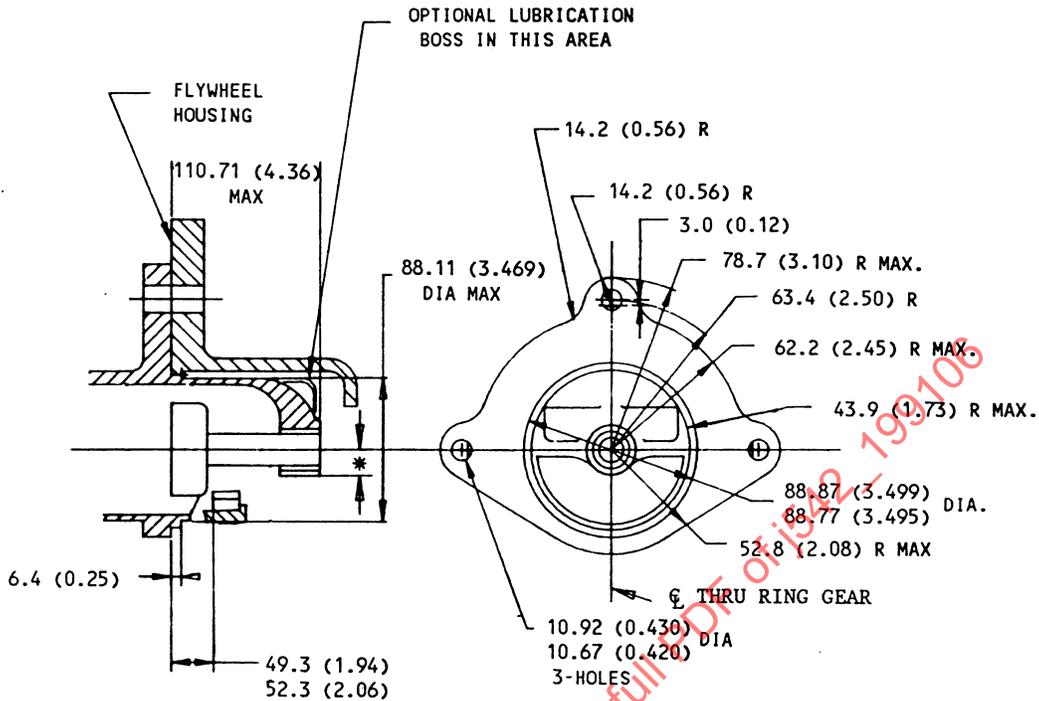
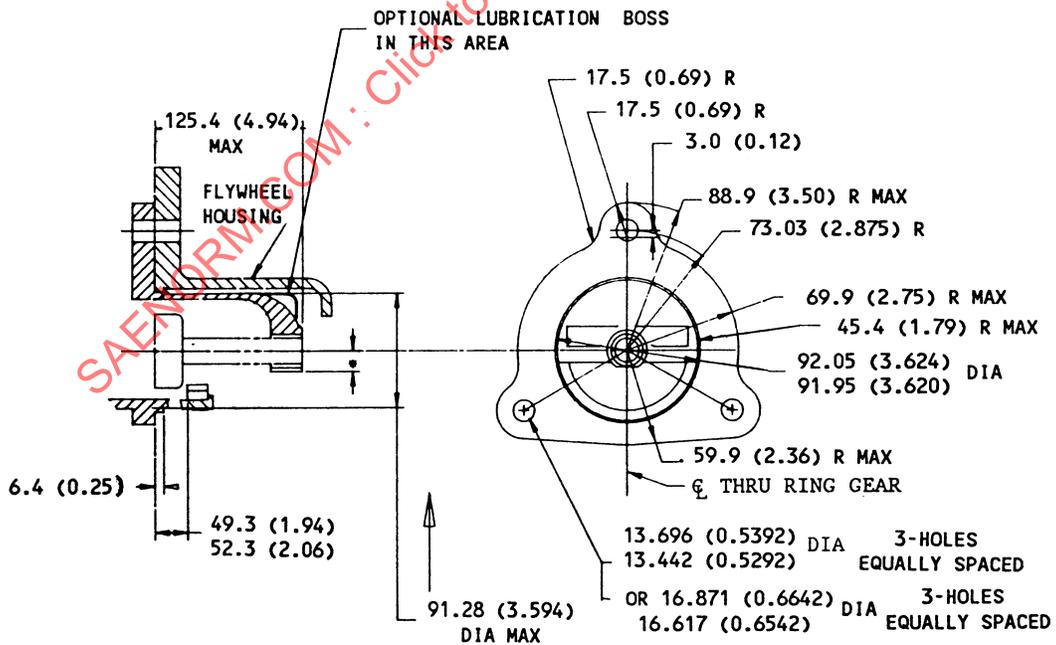


FIGURE 1—TYPE NO. 1 MOUNTING FLANGE MEDIUM DUTY



NOTE: Type No. 2 mounting flange is the same as No. 3 except the mounting holes are 10.92 (0.430)–10.67 (0.420) dia.

FIGURE 2—TYPE NO. 3 MOUNTING FLANGE HEAVY DUTY

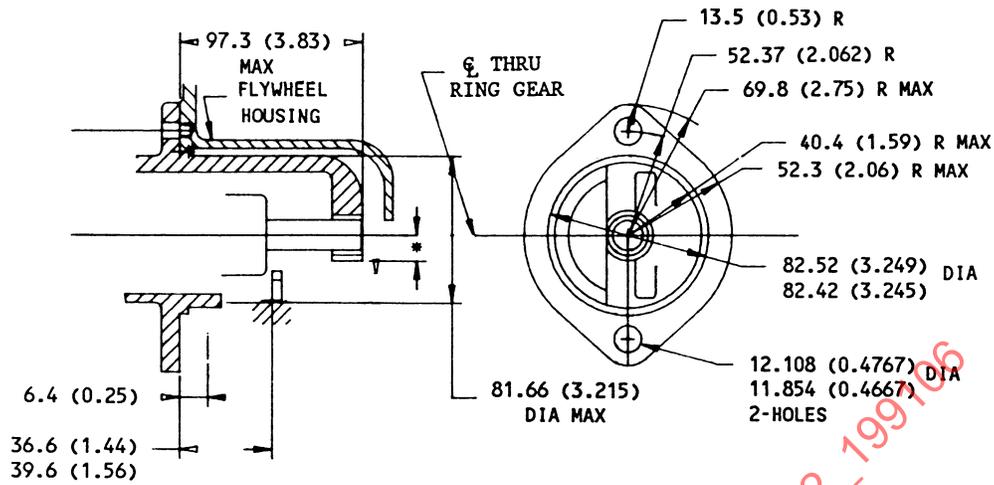


FIGURE 3—TYPE NO. 4 MOUNTING FLANGE LIGHT DUTY

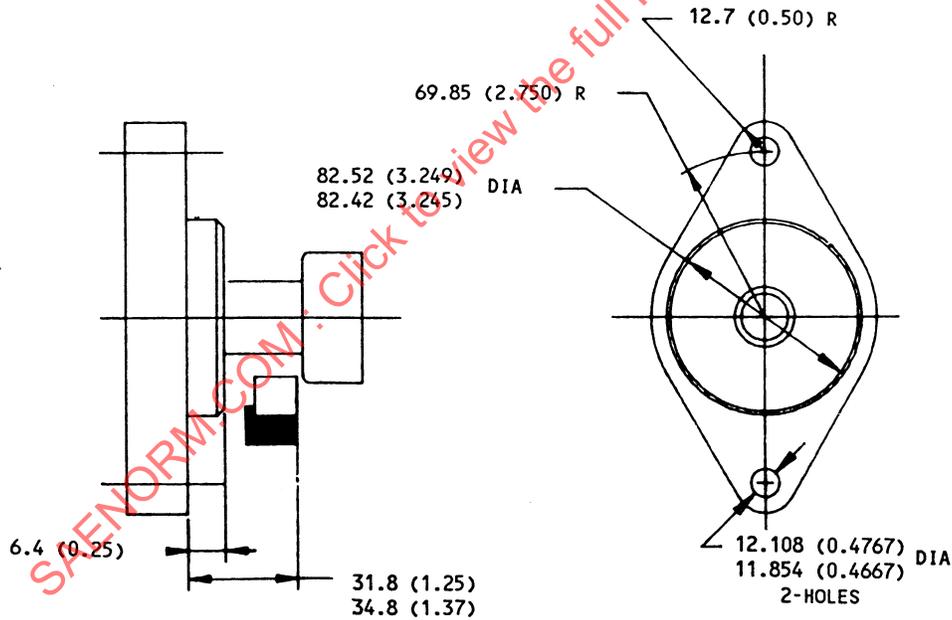


FIGURE 4—TYPE NO. 5 MOUNTING FLANGE LIGHT DUTY

3. Notes

- 3.1 **Marginal Indicia**—The change bar (I) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

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