

SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J635

REAF.
JUN95

Issued 1951-01
Reaffirmed 1995-06

Superseding J635 JUL84

Submitted for recognition as an American National Standard

FAN HUB BOLT CIRCLES AND PILOT HOLES

Foreword—This reaffirmed document has been changed only to reflect the new SAE Technical Standards Board Format.

- 1. Scope**—The purpose of this SAE Recommended Practice is to encourage the standardization of mounting patterns for engine cooling fans as new engines are designed and developed in SI metric units. It is specifically not the objective of the specification to address the soft metric conversion of existing mounting patterns on engines designed in English units.

The scope of the specification is limited to heavy-duty diesel engine manufacturers, fan suppliers, and end users. Standard mounting patterns are given for fans up to 2000 mm rotating diameter. Passenger car and light-duty fans were not addressed because committee members issuing the specification felt that standards for these fans could be better addressed by personnel working in the market segments which use those fans. See Figure 1 and Table 1.

Rationale for issuance of the specification is cost savings through reduction of part numbers and inventory. Failure to comply with this specification will result in the need to release and carry in inventory parts of identical blade geometry and construction, but with different mounting patterns.

- 2. References**—There are no referenced publications specified herein.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

QUESTIONS REGARDING THIS DOCUMENT: (412) 772-8512 FAX: (412) 776-0243
TO PLACE A DOCUMENT ORDER; (412) 776-4970 FAX: (412) 776-0790
SAE WEB ADDRESS <http://www.sae.org>

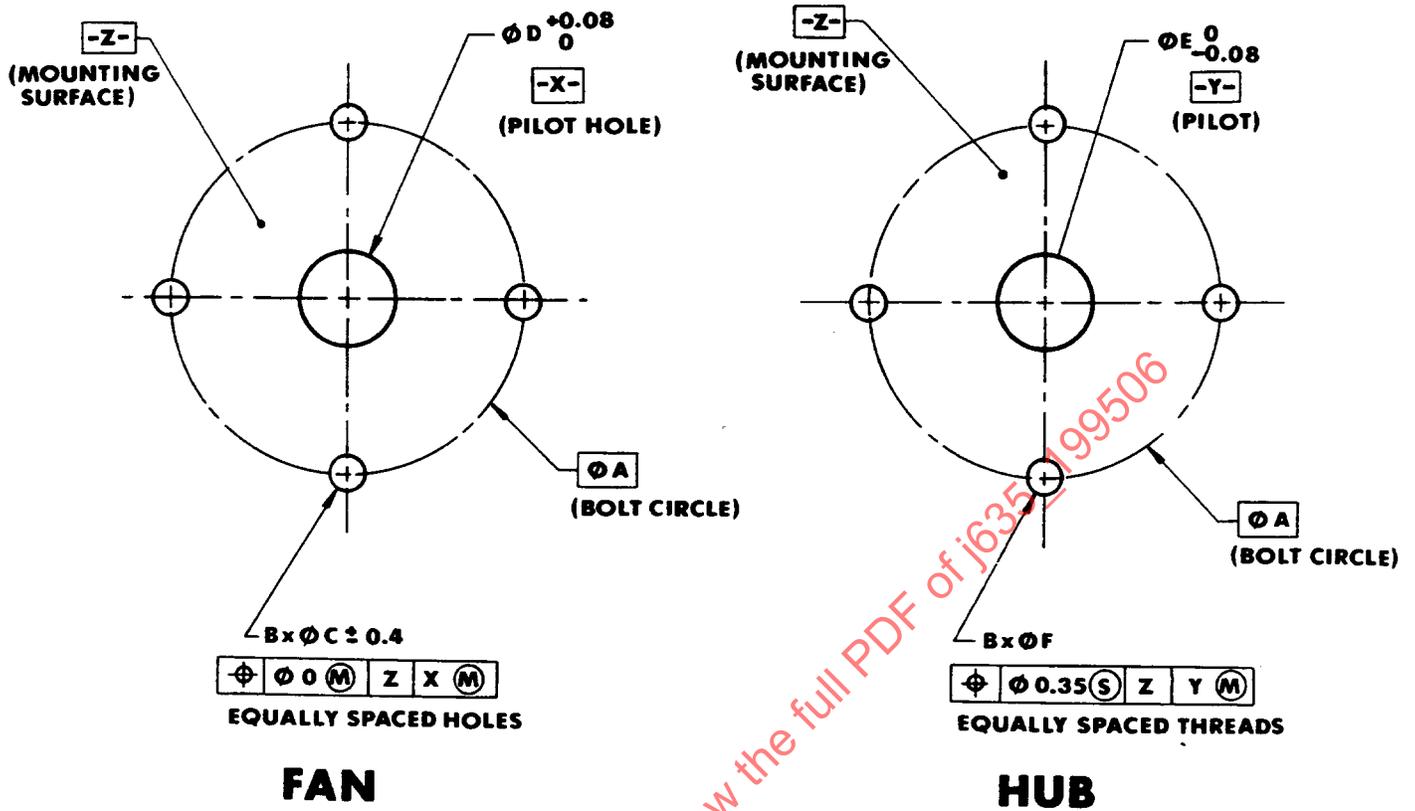


FIGURE 1—METRIC FIXED DRIVE MOUNTING PATTERNS

TABLE 1—METRIC FIXED DRIVE MOUNTING PATTERNS (MM)

| Fan Diameter | A Bolt Circle Diameter | B Number Bolts | C Bolt Hole Diameter (F + 0.75) | D Fan Pilot Hole Dia. | E Hub Pilot Diameter (D-0.05) | F Bolt Dia. |
|------------------------|------------------------|----------------|---------------------------------|-----------------------|-------------------------------|-------------|
| Thru 600 | 50.00 | 4 | 8.75 | 25.00 | 24.95 | 8 |
| Over 600 Thru 1000 | 100.00 | 6 | 10.75 | 50.00 | 49.95 | 10 |
| Over 1000 Thru 1600 | 150.00 | 6 | 12.75 | 75.00 | 74.95 | 12 |
| Over 1600 Thru 2000 | 200.00 | 8 | 12.75 | 100.00 | 99.95 | 12 |

PREPARED BY THE SAE POWERPLANT FORUM COMMITTEE