



1. Fan Motor
2. Fan Blade
3. Relay Pack

Coolant Fan

Mini Cooper Cooling Fan Assembly Diagram

F. Catelli



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measuring the performance characteristics of electric cooling fans ECF also known as electric motor fans or electric motor driven fans Today there is a wide range of conditions under which OEM s request and or ECF Suppliers measure and report performance This current condition results in unnecessary variation in the data and its interpretation making it difficult to use the data for vehicle performance prediction and even to accurately compare the performance of fans from different suppliers or even from the same supplier The major ECF suppliers support the concept of having an Industry Standard for Performance Measurement

Optimization of the electric cooling fan assembly aimed at acoustic improvement and vibration reduction inside vehicle passenger compartments, Vehicle Thermal Management Systems F.

Catelli,1995 **Engine Cooling Fan Installation** D. V. Mascall, **Test Method for Measuring Performance of Engine Cooling Fans** Cooling Systems Standards Committee,2019 This SAE Recommended Practice is intended for use in testing and evaluating the approximate performance of engine driven cooling fans This performance would include flow pressure and power This flow and pressure information is used to estimate the engine cooling performance This power consumption is used to estimate net engine power per SAE J1349 The procedure also provides a general description of equipment necessary to measure the approximate fan performance The test conditions in the procedure generally will not match those of the installation for which cooling and fuel consumption information is desired The performance of a given fan depends on the geometric details of the installation including the shroud and its clearance These details should be duplicated in the test setup if accurate performance measurement is expected The performance at a given air density and speed also depends on the volumetric flow rate or the pressure rise across the fan since these two parameters are mutually dependent These parameters depend on the pressure drop across the radiator core and the ram pressure due to vehicle motion For these reasons the test procedure should be recognized as providing only an approximate measure of installed fan performance Although the test procedure is based on running the fan with a motoring dynamometer the actual installation can be used as a test fixture if an accurate torque meter is available In this case the same qualifications discussed apply For the effect of a fan clutch in reducing fan use and power consumption which is not a part of this procedure refer to SAE J1342 Performance testing of electric cooling fan assemblies is covered in SAE J2867 This document has been updated to improve readability and clarity and Figure 1 moved to its appropriate section **Engine Cooling Fan Structural Analysis** Cooling Systems Standards Committee,2017 Three levels of fan structural analysis are included in this practice aInitial Structural Integrity bIn vehicle Testing cDurability Laboratory Test MethodsThe Initial Structural Integrity section describes analytical and test methods used to predict potential resonance and therefore possible fatigue accumulation The In vehicle or machine section enumerates the general procedure used to conduct a fan strain gage test Various considerations that may affect the outcome of strain gage data have been described for the user of this procedure to adapt discard depending on the particular application The Durability Test Methods section describes the detailed test procedures for a laboratory environment that may

be used depending on type of fan equipment availability and end objective The second and third levels build upon information derived from the previous level Engineering judgment is required as to the applicability of each level to a different vehicle environment or a new fan design This SAE Recommended Practice is applicable to any engine cooling fan application including medium and heavy duty trucks buses construction equipment industrial and agricultural equipment Some sections are more applicable to engine driven fans than to hydraulic driven or electric motor driven fans especially with respect to speed control Fan failure modes however are generally the same regardless of driving modes The usage of non metallic construction necessitates areas of evaluation not required by metallic designs Chief among these are temperature extremes moisture content impact resistance chemical attack material purity homogeneity and aging weathering Areas of evaluation affecting both metallic and non metallic fans but requiring somewhat different approaches with non metallic parts include natural frequency determination and durability testing This document has been reviewed for accuracy of contents and several statements added and or revised for clarification of the procedures presented A new section pertaining to Electric Cooling Fan Assemblies has also been added Wright Propeller-speed Cooling Fan Service Instructions Wright Aeronautical Corporation,1945 **Electric Drive Cooling Fan Motor Mounting** Cooling Systems Standards Committee,2016 This SAE Recommended Practice is applicable to Electric Drive Cooling Fan Assemblies used in Light Duty vehicle cooling systems typically passenger cars and light duty trucks This document outlines the Electric Drive Cooling Fan Motor Mounting interface characteristics such that a common standard is possible Industry finds this recommended practice to be unnecessary and limiting to innovation

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