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Road vehicles — Durability test method of starter relay for stop and start system

*Véhicules routiers — Méthodes de test d'endurance pour le relais
démarrreur stop and start system*



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Foreword

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Introduction

A stop and start system requires more frequent engine starting therefore, the starter relay used in such an engine should be durable. Currently, there is no common durability test method for starter relays, and most individual durability test methods of vehicle manufacturers and relay suppliers use actual starter solenoids as electrical loads of the relay. However, heat mass of the starter solenoid is not sufficient, so cooling equipment and/or a longer test cycle time are necessary to prevent starter solenoid damage.

This document provides a test method using a simulated electrical load which can shorten the test period or eliminate cooling equipment.