

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms, definitions, symbols and abbreviated terms
4	Planning of durability test
4.1	Determination of durability test types
4.2	Determination of durability test conditions
4.3	Definition of cranking time, overrunning time
5	Test bench equipment and information
5.1	Test bench structure
5.2	Minimum requirements of test bench
5.3	Test bench measuring capabilities and channel list
5.4	Test stop criteria
6	Detailed test procedures
6.1	Test procedure
6.1.1	General
6.1.2	Installation and setup stage for engine or engine simulator
6.1.3	Pre-check stage
6.1.4	Test execution stage
6.1.5	Post processing and reporting stage
7	Supplemental test methods
7.1	Brush temperature calibration
7.2	Starter motor input V-I curve and verification
7.3	Brush length measurement
7.4	Pinion to ring gear axial gap
Annex A	(normative) Test bench structure (Type 1)
Annex B	(normative) Test bench structure (Type 2)
Annex C	(normative) Test bench structure (Type 3 and 4)
Annex D	(informative) Summary of reporting items after the test