

TABLE OF CONTENTS

Title	Page
RULES FOR SAFE AUTOMOTIVE TESTING	6
WARRANTY	6
CHAPTER 1. INTRODUCTION	
1-1. INTRODUCTION	7
1-2. VEHICLE MANUAL	7
1-3. OSCILLOSCOPE MANUAL	7
1-4. TEST SELECTION FOR VEHICLE	7
1-5. SAFETY INFORMATION	7
1-6. GENERAL INFORMATION	8
A. Oscilloscope Testing	8
B. Oscilloscope Patterns	8
C. Oscilloscope Features	8
CHAPTER 2. OSCILLOSCOPE CONTROLS, CONNECTIONS, AND ACCESSORIES	
2-1. DESCRIPTION	9
CHAPTER 3. TEST DESCRIPTIONS	
3-1. SPARK POLARITY TEST	10
3-2. MAXIMUM COIL OUTPUT (AVAILABLE VOLTAGE) TEST	10
3-3. SECONDARY INSULATION TEST	10
3-4. SPARK VOLTAGE UNDER LOAD TEST	10
3-5. DWELL & VARIATION IN DWELL TEST	10
3-6. COIL/CONDENSER TEST	10
3-7. POINT ACTION TEST	10
3-8. SECONDARY RESISTANCE TEST	10
3-9. COIL OUTPUT AT CRANKING SPEED TEST	10
3-10. ROTOR GAP TEST	10
3-11. ALTERNATOR TEST	10
3-12. MAGNETIC PICK-UP COIL TEST	10
CHAPTER 4. BASIC SCOPE PATTERNS	
4-1. INTRODUCTION	11
4-2. FUNCTION DISPLAYS	11
A. 50 KV COIL	11
B. 25 KV SPARK	11
C. DISTRIBUTOR PATTERN	11
D. 25 KV SUPERIMPOSED	11
E. ALTERNATOR	12
4-3. SPARK PLUG IGNITION PATTERN	12
A. Firing Section	12
B. Coil/Condenser Section	12
C. Dwell Section	12
CHAPTER 5. TYPES OF IGNITION SYSTEMS	
5-1. INTRODUCTION	13
5-2. APPLICABLE TESTS FOR EACH IGNITION SYSTEM	13
5-3. WAVESHAPE IDENTIFICATION	16
5-4. IGNITION SYSTEM ABBREVIATIONS	16
CHAPTER 6. SPARK POLARITY TEST - ALL SYSTEMS	
6-1. DESCRIPTION	17
6-2. HOOK-UP PROCEDURE	17
6-3. TEST PROCEDURE	18
6-4. TEST RESULTS	18
A. Normal Pattern	18
B. Unsatisfactory Pattern	18