

MECHANICAL VEHICLE SECURITY SYSTEMS

**PHASE 2 VEHICLE INSTALLATION INSPECTION
AND PHASE 3 TESTING OF MECHANICAL
VEHICLE SECURITY SYSTEMS**

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**THATCHAM
THE MOTOR INSURANCE
REPAIR RESEARCH CENTRE**

MECHANICAL VEHICLE SECURITY SYSTEMS

Report Number – EVH-260

Report Compiled By: S Launchbury

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ASSESSMENT OF MECHANICAL VEHICLE SECURITY SYSTEM INSTALLATION SUMMARY REPORT

Terms of Reference

In order to ensure confidentiality the product being assessed will only be referred to by its evaluation number.

Introduction

Report on the inspection of a Mechanical Immobiliser installation with subsequent attack tests and field test.

Evaluation Number: EVH-260

Date of Inspection: 19/02/2002

Summary of Findings

The security system has met the requirements set in the British Insurance Industry's criteria for vehicle security.

Field Test Reports

The Meck Lock security system was installed to a truck provided by Thatcham onto the secondary brake system with no reported failures to date.

Conclusions

The Meck Lock system resisted all destructive attack tests subjected to it during the evaluation.

Recommendations

None to date

ASSESSMENT OF MECHANICAL VEHICLE SECURITY SYSTEM INSTALLATION FULL REPORT

1 INTRODUCTION

- 1.1 Report on the inspection of a Mechanical Immobiliser with subsequent attack testing and field test (*if applicable*) and evaluation of quality control procedures (*if applicable*).
- 1.2 In order to ensure confidentiality the product being assessed will only be referred to by its evaluation number.
- 1.3 Evaluation number: EVH-260
- 1.4 Date of inspection: 19/02/2002

2 SYSTEM OPERATION

- 2.1 *Immobiliser Set/Unset*
System is to be in both the set and unset condition.

3 INSTALLATION QUALITY

- 3.1 *Location of components*
Securely mounted and located behind the dash.



CLAUSE NO	TEST STANDARD FUNCTIONAL	TIME OF FAILURE	FAILURE
9.2	Safety	PASS	
9.3	Setting	PASS	
9.4	Construction	PASS	
9.5	Marking	PASS	
9.6	Instructions	PASS	
9.7	Packaging	PASS	
9.8	Key	PASS	
9.9	Warning Devices	N/A	

CLAUSE NO	ATTACK TOOL	TIME OF FAILURE	FAILURE
10.2.1	Basic Manipulation		
	Pliers	PASS	
	Screwdrivers	PASS	
	Lock Puller	PASS	
10.2.2	Basic Torque		
	Tube	N/A	
	Scaffold Tube	PASS	
	Pry Bar	N/A	
	Water Pump Pliers	N/A	

CLAUSE NO	ATTACK TOOL	TIME OF FAILURE	FAILURE
10.2.3	Advanced Torque		
	Tube	N/A	
	Scaffold Tube	PASS	
	Pry Bar	N/A	
10.2.4	Hammer		
	Club Hammer	PASS	
	Chisel	PASS	
	Punch	PASS	
	Slide Hammer	PASS	
	Steel Rod/Spike	N/A	

10.2.5	Basic Cut		
	Hacksaw	PASS	
	Hacksaw (Abrafile)	PASS	
	Pipe Cutter	PASS	
CLAUSE NO	ATTACK TOOL	TIME OF FAILURE	FAILURE
10.2.6	Advanced Cut		
	Bolt Cutters	N/A	
	Hydraulic Nut Splitters	N/A	
	Hacksaw (Tungsten Carbide Blade)	PASS	
10.2.7	Power Tools	N/A	
	2 Fully Charged Batteries	YES	
	Angle Grinder	PASS	
	Jigsaw	N/A	
	Drill	PASS	
	Drill Bits/Tank Cutters	N/A	
10.2.8	Pick Manipulation		
11.1	Dry Heat	N/A	
11.2	Cold	N/A	
11.3	Salt Mist	N/A	
11.4	Free Fall	N/A	

6. Attack test notes:

The Meck Lock security system was attacked both within the truck provided and on a workbench, securely mounted within a vice.

8. Conclusions:

The security system was installed to the secondary brake system only. The system status of the immobiliser did not change during the attack tests.