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## 1 INTRODUCTION

### 1.1 WHEN TO USE THE MANUAL

The manual is meant to be used as a reference document for mechanics or other technical personnel working with DEFA car alarms. The booklet will give answers to most questions related to functions, usage, assembly and fault finding.

### 1.2 EXPLANATIONS TO THE MANUAL

Particularly useful and important information is marked as follows in the manual:



***Indicates key information and useful hints related to usage or installation of the alarm.***



***Indicates particularly useful information the mechanic needs to consider during installation and programming of the alarm.***

### 1.3 TECHNOLOGY & PROCESS

DEFA is now introducing the 4th generation of car security systems with their two new alarm series designated DEFA Auto Security 400/800 series.

Strict quality demands on design and production of the DEFA alarm products has resulted in a superior product quality. Maintaining a high quality requires strict monitoring of all stages from idea to finished product. The latest technology in computerbased simulation tools and fault finding methods have been applied when developing the electronics. Continuous monitoring of all parts of the manufacturing process is performed during production of the alarms. Tests performed by certified laboratories in Norway and abroad confirms the consistent quality.

By using the latest developments within electronics and component technology, the latest generation of DEFA Auto Security has qualities that makes it one of the most advanced and secure products on the market. Apart from good system flexibility DEFA Auto Security alarms have a long range of important characteristics:

- 3 Low energy consumption
- 3 Electronic protection against overcharging
- 3 Very high immunity against electric noise
- 3 Improved radio system ensures good availability, also in areas influenced by strong radio transmitters on close frequencies.
- 3 Improved electromechanical design assures easy assembly
- 3 High electrical and mechanical stability combined with smaller size
- 3 Patented continuous code change makes it impossible to abuse the code

The alarm systems are module based and each module is equipped with unique microprocessor intelligence. The separate module system is called distributed processing and imparts greater flexibility combined with high working consistency. Included in all products are electronic components (SMT - Surface Mount Technology) of low mass and extended temperature specifications, fulfilling the strict environmental regulations in connection with car installations. All alarms have been designed according to the international specification EU 89/336 (CE labelling) and meet the conditions for «e» labelling according to 95/54 EC and 95/56 EC.