



**270UK INSURANCE APPROVED ALARM (ORIGINAL
REMOTE CONTROL UPGRADE) USER GUIDE**

LASERLINE[®]
CAR ALARM SYSTEMS

270UK COMPACT ALARM SYSTEM FOR ALL CARS/LIGHT COMMERCIAL VEHICLES

This system is manufactured from the highest quality components to ensure a long trouble free operating life and comply with the British insurance industry's criteria for vehicle security for Category 2 → 1 (L2 → 1) (AFTERMARKET SYSTEMS) [Utilising the original equipment remote tested to Issue 2 Criteria] product, as evaluated by Thatcham (MIRRC).

Note: Category 2 → 1 (L2 → 1) product – 270 alarm system is only to be fitted in conjunction with a Category 2 (L2) remote control immobiliser to obtain Category 1 status for the vehicle security.

The 270 Category 2 - 1 alarm is for vehicles equipped with a 12v negative earth electrical system.

These instructions are intended to familiarise you with their very simple operation.

THIS PRODUCT MUST BE INSTALLED BY SKILLED AND QUALIFIED PERSONNEL

WARNING

**ALARMS MUST NOT BE STEAM CLEANED OR PRESSURE WASHED.
BEFORE CARRYING OUT ANY ELECTRICAL WORK ON THE VEHICLE ISOLATE
THE SYSTEM BY REMOVING SYSTEM FUSE/VEHICLE BATTERY OR DAMAGE
TO THE ALARM MAY RESULT!**

1 - INDEX

| | |
|---|----|
| 1) Index | 5 |
| 2) Introduction | 6 |
| 3) System Components | 6 |
| 4) Alarm system Operation: | 7 |
| 4.1 - Alarm System Arming/Disarming | 7 |
| 4.2 - Alarm Condition | 7 |
| 4.3 - Alarm Cycle Limitation | 7 |
| 4.4 - Sensor Self-Testing | 8 |
| 4.5 - Alarm Trigger Signalling | 9 |
| 4.6 - Alarm Trigger History | 9 |
| 5) Problem Solving | 10 |
| 6) Optional Feature | 10 |
| 6.1 - Accidental Disarming | 10 |
| 6.2 - Passive Arming | 11 |
| 6.3 - Additional Siren | 11 |
| 6.4 - Siren Sound | 11 |
| 7) Feature Exclusions | 12 |
| 8) Garage Function | 12 |
| 9) Disarm Using Your Emergency Pin Code | 13 |
| 9.1- How to Know Your Emergency Pin Code | 15 |
| 10) Self-Learning Of A New Electronic Key | 17 |
| 11) Homologations | 18 |
| 12) Technical Data | 18 |
| 13) Lifetime Warranty | 19 |
| 14) Service Inspection | 21 |
| 15) 270 Test Approval Number | 22 |
| 16) Emergency Pin Code | 22 |
| 17) Customer Lifetime Warranty Registration | 23 |

KEY * Optional. ** Vehicle dependent. *** Key operated deadlocking may disarm the alarm.

2 - INTRODUCTION

This alarm system is exclusively a deterrent against possible theft.

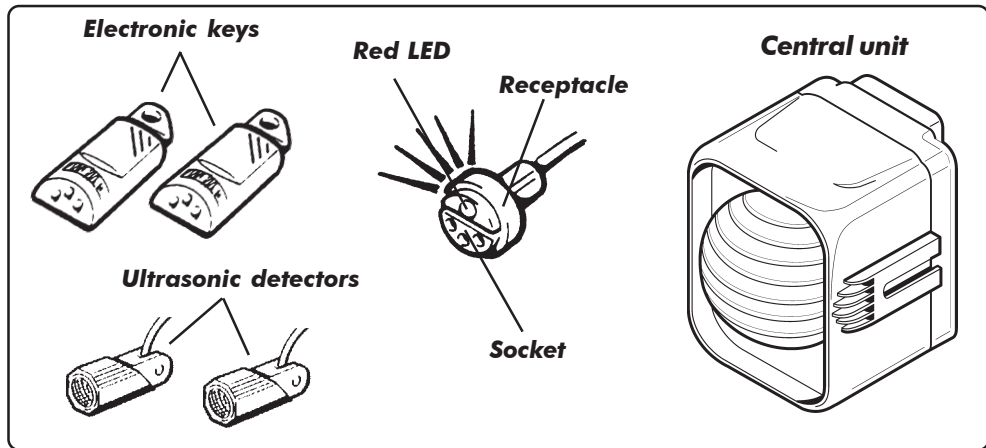
In no way can it be considered as an actual insurance against theft.

The manufacturer declines any liability for faults or anomalies in the alarm system, in its accessories or in the vehicles's electric equipment due to incorrect installation or unobservant of specified features/standards.

The manufacturer reserves the right to make any changes, whenever they should be necessary, without giving prior notice.

3 - SYSTEM COMPONENTS

Your alarm system consists of the following items:



4 - ALARM SYSTEM OPERATION

4.1 - ALARM SYSTEM ARMING/DISARMING

To **arm** the alarm, press the lock or deadlock** button on the vehicle's original remote control; direction indicator lights flash twice* and the alarm may give two acoustic tones* to indicate that the system is now armed.

Once armed, the alarm system will operate the comfort closure**/window closure* if these functions have been incorporated.

The red LED in the receptacle will remain on for 30 seconds (pre-alarm time), then begin to flash to indicate the alarm system is fully armed.

To **disarm** the alarm, press the unlock button on the vehicle's original remote control or insert a valid electronic key into the receptacle socket; direction indicator lights will flash once* and the alarm may give one acoustic tone* to indicate that the alarm system is now disarmed.

- at least 3 seconds should pass between locking/unlocking the vehicle, otherwise you may fail to transmit the new arm/disarm status.
- it is possible to use the electronic key to disarm the alarm but not to arm it.
- comfort closure is a feature that may already be incorporated into the original remote control of the vehicle. Check vehicle user guide for operation.

4.2 - ALARM CONDITION

When fully armed if a sensor is activated, the system will generate an alarm condition: direction indicator lights flash and the siren sounds for 30 seconds (alarm cycle). At the end of the alarm cycle, if the same sensor is still activated, the alarm will generate an alarm cycle again.

4.3 - ALARM CYCLE LIMITATION

The system will automatically exclude the sensor, which has generated 8 alarm cycles in one armed period. All the other sensors will continue to protect the vehicle. The maximum number of

alarm cycles for every sensor is 8, except for power supply interruption sensor (10 alarm cycles).

Note: If a sensor continues to remain activated whilst in the pre-alarm time, the system will automatically exclude this sensor at the end of the pre-alarm time and not generate an alarm condition. When the alarm system is next disarmed a shorter than normal flash of the direction indicator lights and an acoustic tone will be produced to indicate that a sensor was activated whilst arming. To identify the sensor that was activated, consult the **“ALARM TRIGGER SIGNALLING”**

4.4 - SENSOR SELF-TESTING

This facility confirms the correct operation of interior/doors/boot/bonnet detection circuits. This is indicated by a series of audible tones/illumination of the direction indicators and a series of flashing of the dashboard LED, when one of the circuits is triggered within the pre-alarm time. To self test the detection circuits:

DOORS/BOOT/BONNET DETECTION CIRCUITS

- 1 Arm the alarm with the remote control.
- 2 Unlock the vehicle manually with a key***.
- 3 Within the first 30 seconds of arming the alarm open and close all doors/boot/bonnet. The alarm will respond with 3 audible tones, 3 flashes of the direction indicators and the LED will go out. If vehicle is fitted with a courtesy light delay system, you may have to wait for the courtesy light to go out before testing the next doors/boot/bonnet detection circuits.

INTERIOR DETECTION CIRCUIT (Ultrasonic/microwave sensors)

- 1 Sit inside the vehicle.
 - 2 Arm the alarm with the remote control.
 - 3 Within the first 30 seconds of arming the alarm, create movement in front of the interior sensors (ultrasonics - normally mounted at top of windscreen). The alarm will respond with a constant audible tone, the direction indicators will illuminate and the LED will go out.
- 4 seconds must pass between each detection circuit tested before the next self-test signals will be produced.
 - turning the ignition key on or disconnecting the power supply to the alarm system whilst in the pre alarm time or when fully armed will cause an immediate alarm condition.

4.5 - ALARM TRIGGER SIGNALLING

If an alarm condition occurred whilst you were not present, the alarm will signal it through a brief visual and acoustic disarm signal instead of a long disarm signal.

You will be able to identify the exact alarm cause thanks to the “**ALARM TRIGGER HISTORY**” function.

4.6 - ALARM TRIGGER HISTORY

It is possible to know the last 5 alarm triggers which have occurred by turning on the ignition key 3 times within 5 seconds while the alarm system is disarmed.

Each alarm cause is associated to an identification flash code:

| FLASH CODES | ALARM CAUSE |
|-------------------------|---|
| 2 FLASHES/PAUSE: | the ULTRASONIC sensor generated an alarm condition |
| 3 FLASHES/PAUSE: | the DOOR/HATCH sensor generated an alarm condition |
| 4 FLASHES/PAUSE: | the BONNET sensor generated an alarm condition |
| 5 FLASHES/PAUSE: | the IGNITION KEY sensor generated an alarm condition |
| 6 FLASHES/PAUSE: | the POWER SUPPLY sensor generated an alarm condition |
| 7 FLASHES/PAUSE: | the BOOT/ADDITIONAL sensor generated an alarm condition |

The alarm cause is displayed by the LED flashing as many times as the alarm identification flash code, e.g.:



At first the most recent alarm identification flash code will be displayed, followed by a short pause and then the second-last and so on until the fifth one; the display ends automatically and an acoustic tone will be heard.

Note:

The trigger history will not be cleared if the power to the alarm system is disconnected. In case the trigger memory contains less than 5 triggers, the procedure will automatically end immediately after the display of the oldest flash code.

5 - PROBLEM SOLVING

If you find you have to get closer to the vehicle to unlock/disarm the alarm, this is normally a indication that the original remote control batteries may need replacing. Refer to vehicle's user guide for replacing the remote batteries.

If your alarm sounds for no apparent reason, please refer to the **"ALARM TRIGGER HISTORY"** for possible condition. Possible causes of the alarm condition could be:

- Vehicle has been tampered with.
- Windows/sunroof are not fully closed.
- Doors/boot/bonnet are not fully closed.
- Check that the air vents have not been left open. Air movement within the vehicle may trigger your alarm.
- Check the doors/boot/bonnet contact switches operate correctly.
- Articles inside the vehicle are moving e.g. jacket, hanging toys or accessories.

6 - OPTIONAL FEATURES**6.1 - ACCIDENTAL DISARMING***

On your return to the vehicle, if you disarm the system but do not enter the vehicle (doors/bonnet/boot) within 40 seconds, the alarm will automatically re-arm itself. Useful if you accidentally disarm the alarm from a distance without knowing. This function is cancelled if you enter the vehicle (doors/bonnet/boot) within 40 seconds from when the alarm is disarmed. Please ensure you lock the doors manually!

Note:

Some vehicles may have a similar locking feature, where if the vehicle is unlocked and then not entered, the vehicle locking system re-locks the vehicle. In this case the alarm may fully re-arm activating comfort closing*/window closing*/additional sensor* and the ultrasonic/microwave sensor*.

6.2 - PASSIVE ARMING*

This function allows the alarm to be armed automatically when you switch off the ignition and exit the vehicle, without using the original remote control. 13 seconds after the last door is closed/or 13 seconds after the courtesy lights go out the alarm will arm. Please ensure you lock the doors manually!

To **disarm** the alarm if it as been armed by one of the above features:

- **original remote control** – in this case you may need to prompt the vehicle for locking and then prompt it again for unlocking, in order for the alarm to be re-synchronised again with the vehicle lock status;
- **emergency electronic key** – enter the vehicle, the alarm generated by a door opening will be delayed for 5 seconds, to allow the electronic key to be inserted into the receptacle socket.

- When armed through these functions the alarm will not activate the comfort closing*/window closing*/additional sensor* and the ultrasonic/microwave sensor*.
- Accidental Disarming feature may not be available on vehicles where the original remote locking puts on the courtesy lights when unlocking.

6.3 - ADDITIONAL SIREN*

This function allows the alarm to be connected to an additional siren/vehicle horn/paging system and can be programmed to obtain a continuous or intermittent output for the entire alarm cycle.

6.4 - SIREN SOUND*

Two different types of sound can be programmed: monotone or modulated (manufacture default to monotone).

7 - FEATURE EXCLUSIONS

The following features may be disabled:

Ultrasonic exclusion (e.g. if you want to use the alarm whilst keeping vehicle windows open);

Siren exclusion (e.g. if your vehicle is parked in a hospital car park, ferries, skiing resort etc.).

To disable any of the features:

- ① insert and keep inserted an electronic key into the receptacle socket;
- ② to disable the ultrasonic detectors: remove the electronic key after the LED has flashed **once**, accompanied by a acoustic tone;
- ③ to disable the siren: remove the electronic key after the LED has flashed **twice** in succession, accompanied by two acoustic tones.

The exclusions apply only to one arming cycle. So, if you disarm the alarm system after you've disabled a feature, all features will work normally once you arm the alarm again.

Note:

Disabling the ultrasonic detector causes the optional window closing/optional sensor to be disabled and therefore all the associated functions.

Disabling the siren does not disable the optional siren output.

8 - GARAGE FUNCTION

This function allows the alarm system to be excluded temporarily, in order to let you leave the vehicle in a workshop for repairs or maintenance.

When you receive the vehicle back, you can exit this mode and restore the alarm back to its normal functions.

To enable garage function:

- ① insert and hold an electronic key into the receptacle socket;
- ② wait until the LED flashes three times in succession, accompanied by three acoustic tones;
- ③ continue to hold the electronic key in the receptacle socket for a further 3 seconds until garage mode is signalled by a **short** flash of the direction indicator lights and a **short** acoustic tone;

- 4 now remove the electronic key.

With garage function enabled the alarm will flash the red LED in the receptacle every 15 seconds to indicate garage mode. If the optional immobilisation relay is fitted to the vehicle with the optional passive functions enabled, these function will be disabled allowing the vehicle to be driven.

To disable the garage function:

- 1 turn on the vehicles ignition key and keep it turned on;
- 2 insert an electronic key into the receptacle socket;
- 3 the exit from the garage mode will be signalled by a **long** flash of the direction indicator lights and a **long** acoustic tone;
- 4 remove the electronic key.

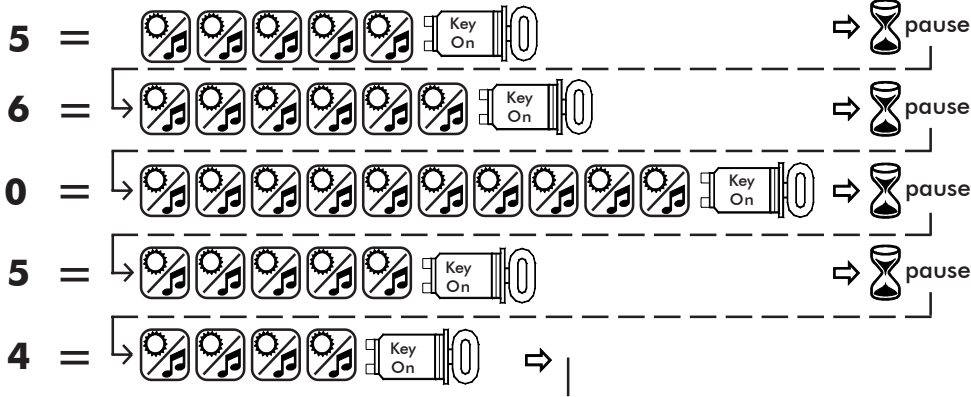
9 - DISARM USING YOUR EMERGENCY PIN CODE

If your original remote control/electronic key does not work correctly or has been lost, to disarm the alarm system and enter the alarm into garage function (see section 8) you must insert the **“emergency pin code”** by doing the following:

- 1 With the alarm armed, activate the siren by opening the door on the driver's side;
- 2 Enter the vehicle. The alarm will stop sounding after 30 seconds and then the LED installed on the dashboard will illuminate for 5 seconds. Within the 5 seconds, turn on the ignition key for 1 second;
- 3 The LED in the receptacle will start to flash and the alarm is ready to accept the Pin Code. If not interrupted, the LED will flash 10 times. Wait for the flashes corresponding to each digit of your Pin Code to be displayed, then turn ON the ignition key for 1 second **only after the LED is off**. Read Pin Code at the end of these instructions from left to right. See the following example:



the pin code to be inserted is 5 6 0 5 4.



Key



LED Flashes



Acoustic Tones



Ignition Key
On

Pin code entered correctly alarm enters garage function without acoustic tones or flashing the direction indicator lights

Pin code entered incorrectly alarm will stay armed



ALARM DISARMED



ALARM ARMED

EXAMPLE: the pin code to be inserted is 5 6 0 5 4.

First digit 5 - Wait 5 flashes/acoustic tones for the first digit. After the fifth flash/acoustic tone has been completed and the LED has turned OFF, immediately turn ON the ignition key for 1 second. Turn the ignition OFF and after a pause, the LED/acoustic tones will start again for the next digit of the Pin Code; Second digit 6 - Wait 6 flashes/acoustic tones for the second digit. After the sixth flash/acoustic tone has been completed and the LED has turned OFF, immediately turn ON the ignition key for 1 second. Turn the ignition OFF and after a pause, the LED/acoustic tones will start again for the next digit of the Pin Code; Third digit 0 - For the 0 digit, the flashes/acoustic tones to be completed are 10. Continue until all the digits have been displayed and inputted correctly. If the code inserted is correct, the alarm will automatically disarm and enter garage function, without a short flash of the direction indicator lights and a short acoustic tone. If the code is incorrect, the alarm will stay armed and sound the siren if triggered again.

Important: to ensure the security procedure, the alarm system does not give a indication of an incorrect code inputted.

9.1 - HOW TO KNOW YOUR EMERGENCY PIN CODE



To display your personal 5 -digit emergency pin code with which you can perform an emergency disarming of your alarm system.



- 1 Open the door on the driver's side;
- 2 Turn the ignition key On;
- 3 Insert and keep inserted an electronic key into the receptacle socket;
- 4 Now turn Off the ignition key;
- 5 Remove the electronic key from the receptacle socket.



The red LED in the receptacle will flash 10 times and remain on for 10 seconds, the LED will go out and the alarm will start to flash the LED accompanied with acoustic tones a number of times equal to the number related to the first digit of your emergency pin code (see the example below).






the Pin Code to note at the end of these instructions would be 5 6 0 5 4.

5 =  →  pause

6 =  →  pause

10 =  →  pause

5 =  →  pause

4 =  → exit

Key



LED Flashes



Acoustic Tones

It is imperative to note on a piece of paper this pin code, if it is different from the original pin code displayed in the rear of these instructions. This pin code must then be stored in a secure location.

Note:

If you intend to leave these instructions in the vehicle, the pin code in the back of these instructions should be removed for safe keeping.

This pin code is derived from the first electronic key memorised when you self-learn the electronic keys. If you want to change the pin code from the original code, you may have to follow the self-learning procedure more than once alternating the first electronic key until a new pin code is given.

10 - SELF-LEARNING OF A NEW ELECTRONIC KEY

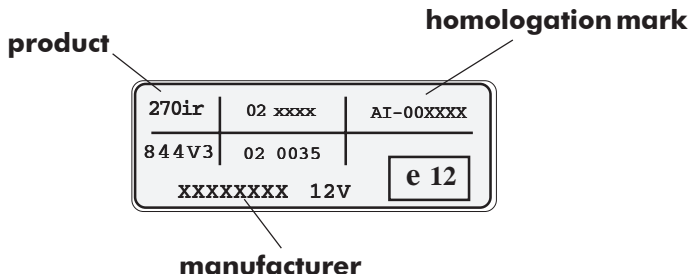
The self-learning function allows you to program new electronic keys or cancel electronic keys. To carry out the self-learning procedure, an original functioning electric key must be available. Then do the following:

- ➊ Open the door on the driver's side;
 - ➋ Turn the ignition key ON;
 - ➌ Insert and keep inserted an electronic key into the receptacle socket;
 - ➍ Now turn off the ignition key;
 - ➎ Remove the electronic key from the receptacle socket. The red LED in the receptacle will flash 10 times and remain on, indicating the self-learning is activated;
 - ➏ At this point, insert the electronic keys into the receptacle socket, that you want to store into the alarms memory. The red LED will turn off briefly for each electronic key that has been programmed into the alarm memory;
 - ➐ To complete the self-learning procedure either; turn the ignition ON to exit the function or wait 10 seconds for the LED to go out and then start to flash the emergency pin code (see section "**How to Know Your Emergency Pin Code**").
- You should allow no more than 10 seconds between key insertions.
 - You can program a maximum of 4 electronic keys.
 - The electronic keys not programmed during the last self-learning session will be automatically cancelled by the alarm memory.
 - If all electronic keys are lost, contact your nearest area dealer.

KEY * Optional. ** Vehicle dependent. *** Key operated deadlocking may disarm the alarm.

11 - HOMOLOGATIONS

This product complies with the requirements of applicable European directives. You will find a label on the alarm unit stating the homology number, obtained according to the European directive 95/56/CE.



12 - TECHNICAL DATA

270

| | |
|---|-----------------------|
| POWER SUPPLY..... | 9-15V negative ground |
| CURRENT ABSORBED WITH ALARM ARMED (with ultrasonic)..... | < 13 mA |
| CURRENT ABSORBED WITH ALARM DISARMED (with ultrasonic)..... | < 5 mA |
| PRE-ALARM TIME | 30 sec. |
| DELAY ENTRY TIME (armed by passive features) | 5 sec. |
| ALARM CYCLE PERIOD | 30 sec. |
| ADDITIONAL SIREN NEGATIVE CONTROL..... | Max 1 A |
| OPERATING TEMPERATURE | -40°C to 85°C |
| DIRECTION INDICATOR LIGHT RELAY CONTACT CAPACITY | 5+5 A |

13 - LIFETIME WARRANTY

Product warranty covers units to be free from defects in manufacture for the lifetime ownership of the original vehicle, in accordance with the terms and conditions of this warranty document.

Any product, which is deemed to be defective, will be replaced or repaired. Accessories including electronic keys and additional modules are guaranteed for a period of 12 months from date of installation.

TERMS AND CONDITIONS

1. Product must be installed by an authorised qualified installer.
2. If product is transferred by an authorised installer onto another vehicle then in this case the warranty reverts back to 2 years from the date of the original installation.
3. Warranty is not transferable by the original customer to other owners of the product or accessory.
4. The customer must complete and return the warranty registration document within 21 days from date of purchase in order for the warranty to be valid.
5. The warranty covers product only and not the quality of the installation. The warranty for installation is provided by the installer. We cannot be held responsible for costs arising due to incorrect installation.
6. All warranty claims must be directed through the original installer, accompanied by the original invoice, detailing date of installation and annual service record. Failure to do this will render the warranty invalid.
7. Continuance of product warranty is subject to an annual product service inspection for which a small charge may be levied by any authorised installer. Evidence of service inspection record must be provided in support of warranty claims.
8. Warranty does not cover costs incurred for breakdown assistance or vehicle recovery, due to product or accessory failure. Warranty does not extend to reimbursement for damage due to defects in products or accessories.

EXCLUSIONS FROM WARRANTY

Warranty will not be valid due to the following:

1. Poor response to transmitters due to abnormally high electromagnetic interference.
2. Low battery voltage in transmitters.
3. Abuse or mistreatment of any product or accessory.
4. Loss or damage due to accident, fire, lightning, explosion, flood or water, war or civil disturbances.
5. Damage caused by external electrical source or from abnormal variation or failure of power supply.
6. Failure caused by installation of accessories not approved by the product manufacturer.
7. Failure of product occurring outside Great Britain.
8. Replacement of defective parts within the guarantee period does not include consumable parts or include labour.
9. If product is repaired by a non authorised installer the product will cease to be covered by the warranty.
10. Original manufacturer negligence.

CONSUMER SUMMARY

All warranties are limited to the duration of this warranty.

This is the complete warranty and no other express or implied warranty is valid. Nothing in this warranty shall affect your statutory rights.

NOTE

Manufacturer declines any responsibility for damage of the alarm/immobiliser and the vehicle electrical system due to **WRONG INSTALLATION OR TAMPERING.**

LASERLINE SpA RESERVES THE RIGHT TO EFFECT CHANGES OF THE PRODUCT WITHOUT FURTHER NOTICE.

14 - SERVICE INSPECTION

| 1 YRS | 2 YRS | 3 YRS | 4 YRS |
|--|---|---|---|
| <p data-bbox="104 189 299 215">Installer's Stamp</p> <p data-bbox="57 436 167 547">Cert. No. Reg. No. Date. Signature</p> | <p data-bbox="394 189 589 215">Installer's Stamp</p> <p data-bbox="347 436 457 547">Cert. No. Reg. No. Date. Signature</p> | <p data-bbox="681 189 876 215">Installer's Stamp</p> <p data-bbox="635 436 744 547">Cert. No. Reg. No. Date. Signature</p> | <p data-bbox="976 189 1171 215">Installer's Stamp</p> <p data-bbox="929 436 1039 547">Cert. No. Reg. No. Date. Signature</p> |
| 5 YRS | 6 YRS | 7 YRS | PLEASE NOTE |
| <p data-bbox="104 620 299 646">Installer's Stamp</p> <p data-bbox="57 862 167 973">Cert. No. Reg. No. Date. Signature</p> | <p data-bbox="394 620 589 646">Installer's Stamp</p> <p data-bbox="347 862 457 973">Cert. No. Reg. No. Date. Signature</p> | <p data-bbox="681 620 876 646">Installer's Stamp</p> <p data-bbox="635 862 744 973">Cert. No. Reg. No. Date. Signature</p> | <p data-bbox="933 625 1191 857">The above Service Inspection must be carried out in order to ensure the validity of the Customer Lifetime Warranty</p> |

15 - 270UK TEST APPROVAL NUMBER

MIRRC Reference Number: Category 2 - 1 TU2-1245/0302

MIRRC Reference Number: Category L2 - 1 TUL1-75/0302

16 - EMERGENCY PIN CODE

YOUR PIN CODE IS:

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

Note: If your pin code has not been completed by your installer please follow **"HOW TO KNOW YOUR EMERGENCY PIN CODE"** procedure to obtain your pin code.

17 - CUSTOMER LIFETIME WARRANTY REGISTRATION

Alarm/Immobiliser Model No. Make.....

Accessories Fitted Model.....

 Date of Installation..... Reg.No.

Customer Name.....Year of Manufacture.....

Address.....

PostcodeTel No.

Installer NameAccount No.

Address.....

PostcodeTel No.

I have read and understood the terms and conditions of the Customer Lifetime Warranty.

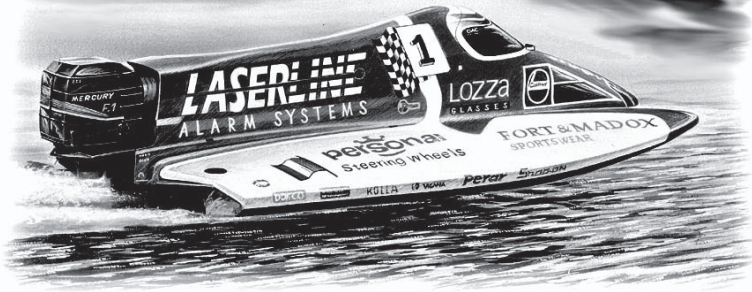
Customer Signature.....

IMPORTANT NOTE
FAILURE TO COMPLETE AND RETURN THIS CARD WILL RESULT IN YOUR WARRANTY
BECOMING VOID.



**Return to:
Laserline Direct Limited
33, Craven Court
Winwick Quay
Warrington
Cheshire
WA2 8QU**

NOTES



Dealer Stamp



Our commissioned Sales and Support Agents in the UK are
Laserline Direct Limited
33, Craven Court - Winwick Quay - Warrington - Cheshire WA2 8QU

cod. ISUT270UK
FILENAME: ISUT270UK.P65