

# S2000 Alarm/Immobiliser Thatcham T2 Category I



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## Operating Instructions

The Honda CAT 1 is a microprocessor controlled alarm system incorporating a data linked self-powered siren, anti-false alarm circuitry and a military standard remote control encryption system. It has convenient handset learning, an in-built panic facility, programmable ultrasonic exclusion and other features operated from the remote handset. The alarm is actively armed and the immobiliser circuits are actively and or passively armed.

### **TO ARM THE SYSTEM**

Press the raised button on the remote handset, the indicators will flash four times. The system is now activated (turned on) and the system's LED mounted around the dashboard area, will illuminate.

If the central locking has been connected or if any optional accessories have been installed i.e. sunroof closer, window closer etc., they will automatically operate when activating the system.

After 45 seconds the system will ARM and the LED will flash at a rate of once per second. On opening a door, boot or bonnet, or if movement is detected within the vehicle, the alarm will be triggered, the siren will sound and the indicators will flash.

In the event of the system being triggered the siren will sound and the indicators flash for 30 seconds. After 30 seconds the alarm will reset and re-arm itself ready for any further intrusions. If for any reason a door is left open for example, the alarm will re-trigger immediately.

The onboard microprocessor controls each individual trigger facility i.e. doors, boot, bonnet and ultrasonics, shutting down a circuit after 9 triggers. Therefore, all facilities together have a maximum of 36 possible triggers. The system re-sets the number of triggers when it is disarmed.

### **TO DISARM THE SYSTEM**

Press the indented button on the remote handset. The indicators will flash once and the LED, mounted around the dashboard area, will extinguish. Where the central locking has been connected, the doors will unlock automatically.

### **PASSIVE ARMING OF THE IMMOBILISER (If the alarm is not armed)**

The immobiliser circuits of the system will automatically arm 30 seconds after the ignition has been turned off (*passive arming*).

Turn the ignition off and the LED will remain on for 30 seconds (*passive arming period*).

Once the immobiliser has armed, the system's LED will flash at a rate of once per second.

The vehicle is now immobilised and will not start.

To disarm the immobiliser circuits press the indented button on the remote handset, the LED will extinguish and the indicators will flash once.

The immobiliser circuits are now disarmed. Turn the ignition on and start the engine. The LED will be extinguished.

Failure to turn the ignition on within 30 seconds will result in the immobiliser circuits automatically re-arming themselves as signified by the flashing LED. Every press of the indented button on the remote handset will refresh the 30-second passive arming period of the immobiliser circuits. The passive arming of the immobiliser will not result in the operation of the alarm, central locking or any other accessory device.

# Information Sheet

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## **PANIC FACILITY**

The panic mode can be operated at any time by pressing the raised button on the remote handset, continuously for 3.5 seconds.

When operated the siren will sound and the indicators will flash for 15 seconds, after which it will cancel automatically.

If the indented handset button is pressed during the 15 seconds, the panic operation will be cancelled. If the panic facility is operated while the vehicle is being driven, the ignition cut facility will not activate.

## **ULTRASONIC EXCLUSION**

To disable the ultrasonics when the alarm system is on, activate the alarm in the normal manner (see "To Arm the System"). Within 3 seconds of the last arming indicator flash, press the raised handset button a second time. The indicators will flash a further 3 times, confirming the deactivation of the ultrasonic system. The ultrasonic will be re-instated automatically when the alarm system is next armed

## **SYSTEM TRIGGER AND TAMPER INDICATION**

In the event of the system being triggered, the siren will sound and the indicators flash for 30 seconds. After the 30 seconds the system will reset and re-arm itself ready for any further intrusions.

If triggered, the system will warn the driver by flashing the indicators 6 times when the system is disarmed. The LED will flash in the following sequence to indicate the circuit that has been triggered.

2 flashes in succession	Door(s) opened
3 flashes in succession	Bonnet opened
4 flashes in succession	Boot opened
5 flashes in succession	Ultrasonic triggered
6 flashes in succession	Ignition turned on

This warning display will be cancelled automatically once the ignition is turned on.

**NB:** To silence and deactivate a triggered alarm system, simply press the indented remote handset button.

## **LAST 5 CIRCUITS TRIGGERED – DISPLAY MODE**

The unit memorises the last 5 triggers that have taken place. They are displayed, most recent first.

Turn the ignition on and within 10 seconds press the raised button on the remote handset once and the indented button 3 times, 4 presses in total.

The LED will remain on for 2 seconds and then flash the last 5 triggered circuits, spacing each event with a pause in the flash count.

On completion, the LED will remain on for 2 seconds and then resume its normal operation. The following is a key to the LED codes that could be displayed.

2 flashes in succession	Door(s) opened
3 flashes in succession	Bonnet opened
4 flashes in succession	Boot opened
5 flashes in succession	Ultrasonic triggered
6 flashes in succession	Ignition turned on

# Information Sheet

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## **'DOOR AJAR' INDICATION**

The system has the facility to audibly indicate an incorrectly closed door (door ajar) when activating the alarm system. The system is factory set as 'off'. Some interior light delay systems cannot be used with this facility. This is because the interior light delay circuit puts a constant ground on the door pin switch. This results in the alarm mistakenly thinking the door is ajar and will set the alarm with the door circuit overridden.

To check this feature, press the raised button on the remote handset with the driver's door open. The system will emit a single tone from the siren and the flash the indicators four times.

The alarm will set on all trigger circuits, excluding the door circuit.

## **ELECTRONIC BOOT RELEASE**

The system has the ability to activate standard fit electrical boot release systems. To check this feature, press the indented button on the remote handset, the indicators will flash once and the doors will unlock.

Within 3 seconds, press the indented button a second time. The indicators will flash twice and the boot will unlock.

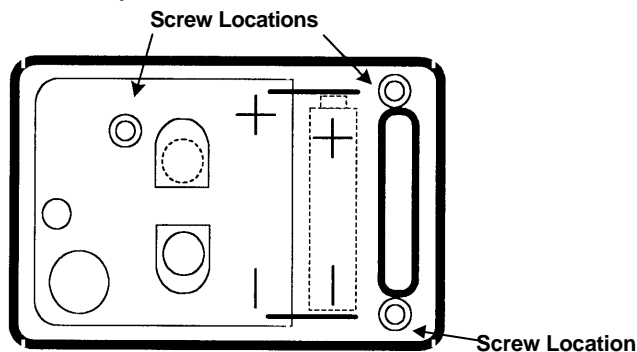
## **SAFE RE-ARM AND LOCK**

If the alarm is disarmed but the vehicle is not entered, the system will automatically re-arm after 30 seconds. If the vehicle has central locking fitted, which is connected to the alarm system, the central locking will relock. To check this feature, ensure all doors, bonnet and boot are closed and press the raised remote handset button, arming the alarm. Wait 10 seconds and press the indented button.

The alarm will disarm and the doors will unlock. Wait for 30 seconds. Do not open any of the doors, bonnet or boot and the alarm will re-arm and the vehicle's central locking will re-lock.

## **HANDSET BATTERY REPLACEMENT**

Remove the 3 screws securing the back of the remote handset. Lift the lid off the remote handset and remove the battery.



Install the new battery taking care to observe the polarity. The battery and printed circuit board are marked + positive and - negative. Refit the lid and replace the screws.

Batteries should be replaced on a regular basis i.e. every 6 months. A flashing LED on the handset shows low battery output and the battery should be replaced immediately.

# Information Sheet

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## **KEY LEARNING PROCEDURE**

The handsets are designed to transmit a new code with each press of the button. Regardless of the number of codes analysed, a pattern cannot be identified - making the system extremely secure. Therefore, a secure key learning procedure must be used in order to add new or additional handsets to the system.

## **ADDING HANDSETS TO THE SYSTEM**

Disarm the system and immediately turn the ignition **ON-OFF-ON-OFF-ON** and within 10 seconds, press the raised button of an existing handset **3** times. The system will respond by:

    Illuminating the vehicle indicators

    Illuminating the system LED

The system is now in '*key learn mode*'

Press the raised button of the new handset once and the system LED will extinguish.

Press the raised button of the new handset once again and the vehicle indicators will extinguish. This signifies completion of handset learning.

**NB:** If no handsets are programmed onto the system, it will revert back to '*normal mode*' after 15 seconds.

If you want to add more handsets, simply repeat the above process. There are five memory places in the alarm system for handsets, therefore, there can only be a maximum of five handsets working on the system at any one time. If a sixth handset is added, it will simply overwrite an existing valid handset.

## **DELETING HANDSETS FROM THE SYSTEM**

There are occasions when it is necessary to delete a handset from the alarm system's memory (loss or theft of the handset). To ensure that the correct memory space is deleted, use an existing valid handset and learn onto the system five times following the 'Adding Handsets to the System' procedure. This will ensure that all previously learned remote handsets will be erased from the system.

After the same valid handset has been learned onto the system five times, any other handsets can be added back onto the system by following the 'Adding Handsets to the System' procedure.

The system is now in '*key learn mode*'.

The Honda CAT 1 has a battery-backed siren, which is linked to the main control unit via a coded data link. Disconnection of the vehicle battery, or loss of power to the system, with the system in the armed state, will result in the siren triggering.

To disconnect the vehicle battery for re-charging, servicing or general maintenance, simply dis-arm the alarm system and remove a vehicle battery terminal. For Honda vehicle's with SRS, follow your handbook battery disconnection procedure.

When the vehicle battery is reconnected and the system is armed for the first time, the siren will 'beep' acknowledging power reconnection.

## **IMPORTANT NOTES**

- Make sure that all windows and sunroof are closed when leaving the vehicle and that all doors are properly closed.
- Test alarm operation regularly to ensure correct operation.
- Replace the remote handset battery at service intervals or at least every 6 months. The remote handset LED will flash if the battery is low on energy. Battery type; alkaline 12 Volt.
- The vehicle should be returned to an authorised Honda Dealer every 12 months in order to carry out a service on the alarm system. This is a requirement of the Vehicle Security Installation Board.