



HA-101

User's Manual

Guide to intelligent Alarm Immobiliser



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May we take this opportunity to
thank you in purchasing the
Hawk HA-101 car alarm & immobiliser.

Please follow the user's manual for better
understanding and operation of the system.

The system complies with:
THATCHAM CATEGORY 1
(ISSUE 2) standards.

HA-101 – User's Instructions

GENERAL INTRODUCTION

HA-101 is a reliable car alarm system, which provides 2 designs to prevent the car thieving. The first design is to use the loud siren. When any illegal intrusion happens, the siren will sound loudly to warn the intruder. The second design is to use an immobilisation system to disable the engine start. With the peripheral devices, the system can provide the following main protection:

- a. Ignition trigger: illegally turn IGNITION ON, the alarm will be triggered
- b. Boot trigger: illegally open the boot, the alarm will be triggered.
- c. Door trigger: illegally open the door, the alarm will be triggered.
- d. AUX trigger: it can be used on any other additional sensor. For example: bonnet trigger. Illegally open the bonnet, the alarm will be triggered.
- e. UL trigger: abnormally moving inside the car, the alarm will be triggered.

SETTING AND UNSETTING

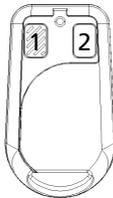
1. REMOTE CONTROL FUNCTIONS

Refer to the following table for the functions introduction.

Button	Step	Functions	Conditions
1	Press one time	a. Arm/disarm and lock/unlock doors b. Disable UL sensor c. Disable immobilisation	a. Ignition off b. When 5 sec after arming c. When immobilisation & IGNITION ON d. Ignition locking & unlocking
2	Press one time Press one time	a. Panic b. Close windows	a. Armed b. Armed

Remote Control

HA-12T



Touch Key

HA-210T



2. ARM

- a. Press button 1
- b. Siren will chirp once (soft chirp),
- c. Hazard light will flash once
- d. Central lock will lock the door at the same time (1 second or 40 seconds)
- e. The system will disable engine starter *immobilisation) at the same time.
- f. 5 Seconds after, bonnet/boot, IGNITION will be arming.
- g. After 60 seconds, door, UL sensor, additional sensor will be arming.
- h. If the door is not closed, 5 seconds later, the siren will chirp 3 times.
- i. 60 Seconds after, LED will flash slowly.
- j. If press button 1 within 5 seconds, the system will bypass UL sensor and external sensor.

3. ALARM PRIOD AND SOUNDING CYCLE

- a. Whilst arming, if any detector is triggered, the siren will sound. For any single trigger (e.g. open the door and close the door back), the siren will sound one cycle only. (One cycle is: sound 27 seconds and stop 12 seconds.)
- b. For the same arming period, and for each single detector (e.g. the door detector), the system can only be triggered (single trigger) at most 10 times.
- c. When continuous triggering (e.g. keep door open) happens on any detector, the siren will sound 27 seconds and stop 12 seconds (this is one cycle) for 10 cycles.
- d. For each individual detector, the number of sounding cycle can be accumulated in the same arming period. (e.g. If open the door, and let the siren sound 5 cycles, and close the door back, then of open the door again, it can only sound 5 cycles.)
- e. After 10 cycles, the triggered detector will be bypassed. This detector will not be triggered again in the same arming period.

4. DISARM

- a. During arming, press button 1, the siren will chirp twice (soft chirp)
- b. Hazard light will flash twice
- c. LED off
- d. IMMOBILISATION will be mobilised again (recover the engineer starter) at the same time

Hence, if any trigger happens during arming, once disarmed (press button 1) the siren will chirp 4 times and hazard light will flash 4 times. Besides, LED will flash to report which sensor has been triggered. It can indicate different source of trigger. Please see the table below.

Trigger source	LED indication
Ignition	Flash 6 times and pause and flash 6 times
Boot	Flash 5 times and pause and flash 5 times
Door	Flash 4 times and pause and flash 4 times
AUX sensor	Flash twice and pause and flash twice
UL sensor	Flash once and pause and flash once

- e. After disarming, within 2 minutes, 'if IGNITION is not ON' the system will automatically enter IMMOBILISATION

5. AUTOMATIC REARMING

When alarm is disarmed, if IGNITION is not turned ON / doors are not opened, 30 sec later, system will be automatically rearmed.

6. AUTO LOCK & UNLOCK THE DOOR

- a. When turn Ignition from OFF to ON position, 10 sec. later the doors will be locked automatically (providing none of doors open).
- b. Turn Ignition from ON position to OFF, the door will be unlocked automatically.
- c. When ignition ON, press button 1 will unlock all doors and button 1 will lock all doors.

7. AUTOMATIC ENGINE IMMOBILISATION

- a. After IGNITION off, LED will be on immediately
- b. When door is open, or IGNITION off for more than 5 minutes, the engine will be disabled.
- c. Remove IMMOBILISATION: IGNITION ON press button 1

8. WINDOW CLOSE (optional accessory HA-64 required)

9. TRUNK RELEASE (optional accessory RELAY required)

When system in arming mode, press button 2 for 3 sec, system will disarm and then release trunk, when system in disarming mode, press button 2 for 3 sec, system will release trunk directly.

10. PANIC

a. While arming, press button 1 & button 2 during arming or disarming, the system will keep sounding for 2 minutes.

11. EMERGENCY OVERRIDE

Open door, turn IGNITION ON, then insert touch key to the receptacle and take it out within 8 seconds, the system will disarm. LED will be OFF. (IMMOBILISATION will be mobilised again at the same time)

12. FUNCTION SELECTION

While disarming, the system can choose:

J1: NOT USED			
J2: SELF-CODING ACTIVATED / SELF-CODING ISOLATED			
J3: ON	J4: OFF	LOCK 6 seconds	UNLOCK 6 seconds
J3: OFF	J4: ON	DUAL LOCK 0.5 seconds	DUAL UNLOCK 0.5 second
J3: ON	J4: ON	LOCK 40 seconds	UNLOCK 1 second (After setting arming, if the user bypass the UL sensor, the LOCK time will be actually 1 second. Then if press button 2 within 30 seconds to output WINDOWS 1, it will output LOCK signal at the same time. But if the user doesn't bypass the UL sensor, the LOCK time will be 40 seconds.)
J3: OFF	J4: OFF	LOCK 1 second	UNLOCK 1 second

13. ENABLE/DISABLE CHIRP SOUND

- Disarm system
- Open driver door
- Within 8 seconds press button 1 and 2 at the same time
- Then hazard light will flash once for disable or flashes twice for enable.

14. SELF-CODING

- While disarming, turn IGNITION ON
- Switch DIP SW J2 to ON
- Then LED will be ON
- Press the transmitter you want to code
- Then LED will be OFF. It means this transmitter has finished the coding.
- Then LED will be ON again. It means you can code another transmitter now.
The system allows you to code 4 transmitters in total. (When the fifth transmitter is coded, the code for the first transmitter will be cleaned)
- And then switch DIP. 2 to OFF and switch to ON again
- Insert the touch key you want to code
- Then LED will be OFF. It means the touch key has finished the coding.

- j. And then LED will be ON again. It means you can code another touch key now. The system allows you to code 4 touch keys in total. (When the fifth touch key is coded, the code for the first touch key will be cleaned)
- k. Switch DIP. 2 to OFF, or turn IGNITION OFF to leave self-coding mode

Note: Each time you enter the coding mode and finish any transmitter coding, the system will exclude all previous coded transmitters.

MAINTENANCE

1. FALSE ALARM

Incorrect operation on the system or inappropriate adjustment for the ultrasonic sensor may let to a false alarm. To prevent the false alarm always set and operate the system according to user's instruction. Make sure the sensibility of ultrasonic sensor is in an appropriate degree. An over sensible adjustment is usually the main reason to cause false alarm.

2. ACTIONS TO BE TAKEN IN THE EVENT OF FAILURE

Condition	Possible reason	Action to be taken
Remote control not working	Run out of battery code cleaned by the fifth transmitter. (The system is designed to accept 4 transmitters at most. When the fifth transmitter has finished coding, the code for the first transmitter will be automatically cleaned.)	Check the battery coding again
Ultrasonic sensor not working	1. Has been by-passed 2. Inappropriate sensibility adjustment	1. Set arming again 2. Readjust
Can not start the engine	Has been immobilised	Use remote control or touch key to disarm it

3. REMOTE CONTROL LOSS

In case of remote control (transmitter) loss, pls use the normal car key to open the door. (This action will trigger the alarm). Then insert the touch key to the touch key receptacle and take it out to disarm the system. The system is designed to accept at most 4 transmitters at the same time. When the fifth transmitter is coded, the code for the first transmitter will be cleaned. So, in case of transmitter loss please use the spare transmitter out of the system.

Note: For replacement transmitters or touch keys, in case of any loss, contact the dealer please. (REMOTE part no.: HA-12T & TOUCH KEY part no.: HA-120T)

4. REMINDER

- a. Keep the main system box away from water (for example: while washing the car)
- b. Try to avoid the direct water rinsing on the siren though it is waterproof.
- c. Check battery first in case the remote control is not working. Do not knock, slap, or do any strike on the remote control.

- d. While changing the battery of the remote, make sure to use the correct type and position it in the correct direction. It is recommended to change the battery at least every 6 months. For HA-12T: use 27A alkaline battery.
- e. If the car is not driven for a long time, it is recommended to start the engine regularly to make sure the battery of the car can supply enough electricity to the system.
- f. If the car stops supplying power to the system (either the power supply system has been cut or the car battery has been run out.), the siren will start sounding by using its own back up battery until the battery is run out. In this case, unexpected damage may possibly happen on the back up battery of the siren. To avoid the damage, always make sure the car battery can provide enough electricity for the recharging of the siren.
- g. Contact the system provider for any unsure action on the system.

▲ Warning!

Any unauthorised alternations or additions to the system may lead to the malfunction of the system, which will invalidate the certificate and guarantee of the product.

