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## APPLICATIONS

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**AD100**

- ADC110-B
- ADC140
- ADC141

**PRO**

- ADC151
- ADC140
- ADC141
### APPLICATIONS

#### HONDA 2007 (ADS158)

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*AD100 PRO ONLY*
### ACURA (ADS110)

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### ACURA 2007 (ADS158) * AD100 PRO ONLY

<table>
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<td>11</td>
<td>✗</td>
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<td>@</td>
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<td>Frv</td>
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</tr>
<tr>
<td>Civic Type R</td>
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HONDA

SHUTTLE
# GENERAL OPERATION

## Introduction

An immobiliser system was fitted as standard equipment on this range of Honda vehicles, which prevents the vehicle from starting unless a programmed key is used. There are 4 types of immobiliser system used, which vary slightly in operation.

<table>
<thead>
<tr>
<th></th>
<th>TYPE 1 (a &amp; b)</th>
<th>TYPE 2 (a, b &amp; c)</th>
<th>TYPE 3</th>
<th>TYPE 4</th>
<th>TYPE 5</th>
<th>TYPE 6</th>
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<tr>
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<td>Master (Original) Key (2 off) - Programmed</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Valet Key (1 off) - Programmed</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Learning Key (1 off)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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<td>✓</td>
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<td>✓</td>
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<td>-</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

The four systems consist of:-

**Note:**

Type 2 immobiliser system covers 2 different versions (a & b). The differences between version ‘a & b’ are not apparent to the technician, however the correct application must be selected from the ‘Vehicle selection’ menu. Where ‘Type 2’ is referred to within this manual, it is applicable to both versions (a & b), unless otherwise stated.

### System Keys - (All types)

Both master and valet keys are programmed keys, which means they have a transponder embedded in their grips that provides an ID (identification) code when inserted in the ignition switch. This ID code is used by the immobiliser system to determine whether to start the engine. Note: The master key is also referred to as the original key.

#### Type 1

In addition to the master and valet keys this system includes a learning key which has a unique ID code that is matched to a particular vehicle’s immobiliser control unit. It allows the immobiliser control unit to be re-programmed to either add additional programmed keys and/or delete ID codes of lost keys.

**IMPORTANT**

The learning key will not start the engine and may damage the immobiliser control unit if attempted.

#### Type 4

Unlike the other master and valet keys, those used on type 4 immobiliser system contain electronic circuitry that produce a ‘rolling-type’ code (determined by the control unit-receiver) when the key is inserted into the ignition switch. On LX and EX vehicle models the master keys also include a battery operated remote transmitter allowing the vehicle to be locked/unlocked. Both master and valet keys are sidewinder-type and can be identified by a ‘V’ stamped on the shank.

### Immobiliser System Indicator - (All Types)

The immobiliser system indicator is a ‘key’ symbol that is located on the instrument panel, whose location varies dependant on vehicle. The ‘key’ symbol will illuminate when an ignition key is inserted, as follows:
**GENERAL OPERATION**

<table>
<thead>
<tr>
<th>Key Type</th>
<th>Ignition Key Position</th>
<th>Indicator Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmed key (Master or Valet)</td>
<td>Turn to ON (II)</td>
<td>Illuminates for 2 seconds</td>
</tr>
<tr>
<td></td>
<td>Turn to LOCK (0) &amp; remove key</td>
<td>Flashes for 5 seconds &amp; goes off</td>
</tr>
<tr>
<td>Non-Programmed Key</td>
<td>Turn to ON (II)</td>
<td>Illuminates for 2 seconds &amp; then flashes. It will continue to flash until the key is removed. Note: TYPE 1 The engine will not crank. TYPE 2,3,4 Engine Cranks but will not start.</td>
</tr>
</tbody>
</table>

**Immobiliser Receiver - (Type 1 & 2)**

The receiver is an electrical coil embedded within the ignition switch bezel. Power is provided by the immobiliser control unit (Type 1) or the ECU (Type 2) and when a programmed key is inserted into the ignition switch the transponder is energised by electromagnetic induction. Once energised the transponder transmits its ID code to the receiver, which is then transmitted to the control unit (Type 1) or the ECM (Type 2).

*N*ote: The immobiliser receiver does not need re-programming when replaced.

**Immobiliser Control Unit - (Type 1)**

*Location:* Below the dashboard on the left side of the steering column. Once the transponder ID code is received from the immobiliser receiver, it is checked against codes stored within its memory (maximum of 5).

*Code Accepted:* Power provided to the starter cut relay. A unique serial code is transmitted to the ECU.

*Code Not Accepted:* No Power is provided to the starter cut relay. A Unique serial code is not transmitted to the ECU.

**Immobiliser Control Unit-Receiver - (Type 3 & 4)**

These types of system use a combined immobiliser control unit-receiver, which is located around the ignition switch. When a programmed key is inserted into the ignition switch the transponder is energised by electromagnetic induction and transmits its ID code to the control unit-receiver, where it is checked against codes stored within its memory (maximum of 5).

*Code Accepted:* A unique serial code is transmitted to the ECU.

*Code Not Accepted:* Unique serial code is not transmitted to the ECU.

**Engine Control Module (ECU) - (All types)**

**Type 1,3 & 4**

When the ECU receives the unique serial code, it communicates back to the immobiliser control unit by transmitting back its own unique serial code. If both unique codes are mutually accepted, the ECU energises both the fuel supply and ignition system, thus allowing the engine to start.

**Type 2**

This type of system receives the transponder ID code directly from the immobiliser receiver and checks it against codes stored within its memory (maximum of 5).

*Code Accepted:* Fuel system energised, engine starts.

*Code Not Accepted:* Fuel system not energised, engine will not start.
SPECIAL FUNCTIONS

HONDA - TYPES 1A, 1B & 1C

PROGRAM KEYS

VEHICLE SELECTION

- FIAT
- GENERAL MOTORS
- HONDA
- HYUNDAI
- ISUZU
- JEEP

PROGRAM KEYS

REWITE IMMOBILISER

NO OF ORIGINAL KEYS:

DO NOT INCLUDE RED LEARNING KEY

NOTE: ENTER THE NUMBER OF EXISTING PROGRAMMED KEYS BLACK MASTER AND GREY VALET KEYS.

THEN ENTER THE NUMBER OF NEW KEYS TO BE PROGRAMMED.

PROGRAM KEYS

REWITE IMMOBILISER

NO OF NEW KEYS

PROGRAM KEYS

SWITCH IGNITION OFF

NOTE: FOLLOW ON SCREEN PROMPTS TO COMPLETE PROGRAMMING.

PROGRAM KEYS

KEY INFORMATION

PRESS ENTER KEY

ECU IDENTIFICATION

HONDA IMMO. 1

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION

SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

PROGRAM KEYS

PRESS ENTER KEY
**SPECIAL FUNCTIONS**

**HONDA - TYPES 1A, 1B & 1C (NEW IMMO)**

**VEHICLE SELECTION**
- FIAT
- GENERAL MOTORS
- HONDA
- HYUNDAI
- ISUZU
- JEEP

**VEHICLE SELECTION**
- TYPE 1A
- TYPE 1B
- TYPE 1C
- TYPE 2A
- TYPE 2B
- TYPE 2C

**REWRITE IMMOBILISER**
- NO OF ORIGINAL KEYS:
  - DO NOT INCLUDE RED LEARNING KEY

**NO OF NEW KEYS**
- NOTE: ENTER 1 AS THIS IS THE BLACK MASTER KEY THAT IS SUPPLIED WITH THE NEW IMMOBILISER BOX.
- NOTE: ENTER THE NUMBER OF NEW KEYS, DO NOT COUNT ANY KEYS THAT CAME WITH THE NEW IMMO. IF NO NEW KEYS ARE REQUIRED THEN ENTER 0
- NOTE: FOLLOW ON SCREEN PROMPTS TO COMPLETE PROGRAMMING.

**PRESS ENTER KEY**

**HONDA IMMO. 1**

**DIAGNOSTIC MENU**
- ECU IDENTIFICATION
- SPECIAL FUNCTIONS

**PRESS ENTER KEY**

**PRESS ENTER KEY**

**PRESS ENTER KEY**

**PRESS ENTER KEY**
SPECIAL FUNCTIONS

HONDA - TYPES 2A, 2B, 2C, 3 & 4

PROGRAM KEYS

VEHICLE SELECTION
+ FIAT
+ GENERAL MOTORS
+ HONDA
+ HYUNDAI
+ ISUZU
+ JEEP

PROGRAM KEYS

VEHICLE SELECTION
+ TYPE 2A
+ TYPE 2B
+ TYPE 2C
+ TYPE 3
+ TYPE 4 CAN
+ TYPE 5

PROGRAM KEYS

TOTAL KEYS REQD:
1 2 3 4 5
6 7 8 9 0

PROGRAM KEYS

SWITCH IGNITION OFF

PROGRAM KEYS

SWITCH IGNITION ON
WITH SAME KEY

PROGRAM KEYS

PLEASE WAIT
10 Sec.

PROGRAMMING KEYS

SWITCH IGNITION ON
WITHIN 17 Secs
WITH NEXT KEY

SWITCH IGNITION ON
WITHIN 20 Secs
WITH SAME KEY

PROGRAMMING KEYS

REWRITE IMMOBILISER
IS IMMO. LIGHT OUT?

[ ]

PROGRAMMING KEYS

SWITCH IGNITION OFF

PROGRAMMING KEYS

SWITCH IGNITION ON
WITH SAME KEY

PROGRAMMING KEYS

SWITCH IGNITION OFF
WITHIN 17 Secs

PROGRAMMING KEYS

SWITCH IGNITION ON
WITHIN 20 Secs
WITH SAME KEY

PROGRAMMING KEYS

SWITCH IGNITION ON
WITHIN 17 Secs
WITH SAME KEY

PROGRAMMING KEYS

SWITCH IGNITION OFF

PROGRAMMING KEYS

SWITCH IGNITION ON
WITH SAME KEY

PROGRAMMING KEYS

SWITCH IGNITION OFF
WITHIN 17 Secs
WITH SAME KEY

PROGRAMMING KEYS

SWITCH IGNITION ON
WITHIN 20 Secs
WITH SAME KEY

KEY INFORMATION

SYSTEM: 1
KEYS STORED: 2

PRESS ENTER KEY
SPECIAL FUNCTIONS

HONDA - TYPES 7, 8 & 10

PROGRAM KEYS

VEHICLE SELECTION

+ FIAT
+ GENERAL MOTORS
+ HONDA
+ HYUNDAI
+ ISUZU
+ JEEP

PROGRAM KEYS

WEB SECURITY

PLEASE GAIN
AUTHORISATION
FROM AD

1234567890—1234567890

PRESS ENTER KEY

PROGRAM KEYS

SWITCH IGNITION OFF

PROGRAM KEYS

SWITCH IGNITION ON

WITH SAME KEY

ECU IDENTIFICATION

HONDA IMMO. 7

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION

SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

KEY STATUS

PROGRAM KEYS

TOTAL KEYS REQ'D:

1 2 3 4 5
6 7 8 9 0

PLEASE WAIT
10 Secs

WEB SECURITY

ACCESS GAINED

Press Enter Key

PROGRAMMING KEYS

SWITCH IGNITION OFF

NOTE: AN AD SECURITY CODE IS
REQUIRED FROM THE AD WEB
SITE. CLICK ON CODED AND THEN
HONDA PAGE TO OBTAIN THE
RESPONSE FOR THIS CODE.
THE TESTER SERIAL NUMBER,
PASSCODE AND USERNAME
DETAILS ARE REQUIRED.
SPECIAL FUNCTIONS

HONDA - TYPES 7, 8 & 10

PROGRAM KEYS

PROGRAMMING KEYS
SWITCH IGNITION ON
WITH SAME KEY

REWRITE IMMOBILISER
IS IMMO. LIGHT OUT?
ENTER—YES
BACK—NO

PROGRAMMING KEYS
SWITCH IGNITION OFF

PROGRAMMING KEYS
SWITCH IGNITION ON
WITH SAME KEY

KEY INFORMATION
SYSTEM : X
KEYS STORED : X
TYPE : X
PRESS ENTER KEY
HONDA - TYPES 9, 11 & 12

**PROGRAM KEYS**

**VEHICLE SELECTION**
- FIAT
- GENERAL MOTORS
- HONDA
- HYUNDAI
- ISUZU
- JEEP

**VEHICLE SELECTION**
- TYPE 8
- TYPE 9
- TYPE 10
- TYPE 11
- TYPE 12
- TYPE 13

**SWITCH IGNITION ON**

**PRESS ENTER KEY**

**ECU IDENTIFICATION**

HONDA IMMO. 12

**PRESS ENTER KEY**

**DIAGNOSTIC MENU**

**ECU IDENTIFICATION**

- SPECIAL FUNCTIONS

**PRESS ENTER KEY**

**PROGRAMMING KEYS**

SWITCH IGNITION OFF

**PRESS ENTER KEY**

**WEB SECURITY**

PLEASE GAIN AUTHORISATION FROM AD

1234567890—1234567890

PRESS ENTER KEY

**NOTE:** AN AD SECURITY CODE IS REQUIRED FROM THE AD WEB SITE. CLICK ON CODED AND THEN HONDA PAGE TO OBTAIN THE RESPONSE FOR THIS CODE. THE TESTER SERIAL NUMBER, PASSCODE AND USERNAME DETAILS ARE REQUIRED.

**WEB SECURITY**

HONDA IMMO. 12

12345678901234567890

**PRESS ENTER KEY**

**WEB SECURITY**

ACCESS GAINED

**PRESS ENTER KEY**

**PROGRAMMING KEYS**

TOTAL KEYS REQD:

1 2 3 4 5

6 7 8 9 0

SWITCH IGNITION OFF WITHIN 20 Secs

SWITCH IGNITION ON WITH SAME KEY

SWITCH IGNITION OFF WITHIN 17 Secs

SWITCH IGNITION ON WITH NEXT KEY

SWITCH IGNITION OFF WITHIN 17 Secs

SWITCH IGNITION ON WITH SAME KEY
PROGRAM KEYS

PLEASE WAIT
10 Sec.

REWRI...
**SPECIAL FUNCTIONS**

**HONDA - TYPES 13**

**PROGRAM KEYS**

**VEHICLE SELECTION**
- FIAT
- GENERAL MOTORS
- HONDA
- HYUNDAI
- ISUZU
- JEEP

**VEHICLE SELECTION**
- TYPE 8
- TYPE 9
- TYPE 10
- TYPE 11
- TYPE 12
- TYPE 13

**WEB SECURITY**

**ECU IDENTIFICATION**

**DIAGNOSTIC MENU**

**PROGRAM KEYS**

**SWITCH IGNITION ON**

**PRESS ENTER KEY**

**WEB SECURITY**

**DIAGNOSTIC MENU**

**PROGRAMMING KEYS**

**SWITCH IGNITION OFF**

**PRESS ENTER KEY**

**NOTE:** AN AD SECURITY CODE IS REQUIRED FROM THE AD WEB SITE. CLICK ON CODED AND THEN HONDA PAGE TO OBTAIN THE RESPONSE FOR THIS CODE. THE TESTER SERIAL NUMBER, PASSCODE AND USERNAME DETAILS ARE REQUIRED.

**WEB SECURITY**

1234567890

**ACCESS GAINED**

**PLEASE WAIT**

10 Secs

**PROGRAMMING KEYS**

**SWITCH IGNITION OFF**

**PLEASE ENTER**

**TOTAL KEYS REQD:**

1 2 3 4 5

6 7 8 9 0
PROGRAM KEYS

PROGRAMMING KEYS
SWITCH IGNITION ON
WITH SAME KEY

REWRITE IMMOBILISER
IS IMMO. LIGHT OUT?
ENTER—YES
BACK—NO

PROGRAMMING KEYS
SWITCH IGNITION OFF

PROGRAMMING KEYS
SWITCH IGNITION ON
WITH SAME KEY

PROGRAMMING KEYS
PROCEDURE COMPLETE
PRESS ENTER KEY

HONDA - TYPES 13

PROGRAMMING KEYS
1. The procedure for coding keys on the TESTER is merely a text walkthrough (wait 17 secs, turn key off etc) it is completely unaffected by the transponder type or indeed whether a transponder is fitted in the key or not. This is the reason for the immobiliser light continuing to flash after the keys have been programmed. The question "is the warning light off" during the programming procedure is a response to procedure rather than an actual consequence of correct programming.

2. Honda vehicles have inertia switches fitted, these are a common cause of non start on certain vehicles.

3. If the key receiver aerial is replaced, the TESTER will not program in the keys. ECU coding will be required to match the Aerial with the Engine Management ECU.

4. Civic vehicles with alarms will need to have the alarm turned off prior to programming keys.

5. An immobiliser warning light that goes out during the programming procedure (and is out when the TESTER asks "is the warning light off") but comes back on after programming is an indication of an incorrect or faulty transponder.

**TYPE 1 IMMOBILISER**

1. IMPORTANT - The learning key will not start the engine and may damage the immobiliser control unit if attempted.

2. If all keys, master key or learning key are lost then a replacement immobiliser control unit set is required.
REMOTE PROGRAMMING

Accord (03 to 06) Accord SE (97)
Civic (99 to 06) CR-V (98 to 06)
Element (03 to 06) Insight (00 to 06)
Odyssey (99 to 06) Pilot (02 to 06)
Prelude (99 to 01)

Notes: A. Maximum of 3 can be programmed.
B. Please ensure time delays are maintained, otherwise procedure will not be completed correctly.

Procedure
1. Turn ignition ON.
2. Within 4 seconds press Lock or Unlock of first key.
3. Within 4 second turn ignition OFF.
4. Within 4 second turn ignition ON.
5. Repeat steps 2-4 twice.
6. Within 4 seconds press Lock or Unlock of first key.
7. System should now lock & unlock vehicle to indicate its in programming mode.
8. Within 10 seconds
   - press Lock or Unlock button of first key, allowing doors to lock/unlock once.
   - press Lock or Unlock button of each remaining key, allowing doors to lock/unlock once.
9. Switch ignition OFF
10. Remove key
11. Confirm all remote controls operate.

Civic (96 to 98)

Notes: A. Maximum of 4 can be programmed.

Procedure
1. Turn ignition ON.
2. Within 5 seconds press & hold Valet button (located on radio).
3. System should now lock & unlock vehicle to indicate its in programming mode.
4. Within 5 second turn ignition OFF and press s Lock or Unlock of first key.
5. Within 10 seconds
   - press Lock or Unlock button of each remaining key, allowing doors to lock/unlock once.
6. Release Valet key.
7. Switch ignition OFF
8. Remove key.
9. Confirm all remote controls operate.

PROGRAMMING OF INFRA RED REMOTES

Notes: A. Maximum of 3 can be programmed.
B. Please ensure time delays are maintained, otherwise procedure will not be completed correctly.

Procedure
1. Turn ignition ON.
2. Within 4 seconds push the transmitter button aiming the transmitter at the receiver unit above the rear view mirror.
3. Within 4 second turn ignition OFF.
4. For additional remote controls repeat steps 1 to 4 within 4 seconds of programming the last remote control.
5. Turn ignition ON.
6. Within 4 seconds push the transmitter button aiming the transmitter at the receiver unit above the rear view mirror.
7. The door actuator should operate.
8. Within 8 seconds aim the first remote control at the receiver and press the transmitter button.
9. The door actuator should operate.
10. Within 8 seconds aim the second remote control at the receiver and press the transmitter button.
11. The door actuator should operate.
12. Within 8 seconds aim the third remote control at the receiver and press the transmitter button.
13. Turn ignition OFF, and remove key.
14. Confirm all remote controls operate.
Passport

Method 1

Note
A. Existing remotes will be erased

1. Open drivers door
2. Insert key into ignition.
3. Switch ign to ACC position & back to Lock position 3 times within 10 seconds.
4. Within 10 seconds open & close drivers door twice.
5. Within 10 seconds switch ign to ACC position & back to Lock position 5 times, then close & open drivers door.
6. System should lock/unlock vehicle to indicate it is in programming mode.
7. Within 20 seconds press Lock button on remote.
8. System should Lock & Unlock vehicle
9. Within 20 seconds press Unlock button on remote.
10. System should Lock & Unlock vehicle
11. Programming procedure complete
12. Remove key
13. Close drivers door.

Method 2

Note
A. Use this procedure for adding remotes
B. A maximum of 4 remotes can be programmed

1. Open drivers door
2. Insert key into ignition.
3. Switch ign to ACC position & back to Lock position 3 times within 10 seconds.
4. Within 10 seconds open & close drivers door twice.
5. Within 10 seconds switch ign to ACC position & back to Lock position 3 times, then close & open drivers door.
6. System should lock/unlock vehicle to indicate it is in programming mode.
7. Within 20 seconds press Lock button on remote.
8. System should Lock & Unlock vehicle
9. Within 20 seconds press Unlock button on remote.
10. System should Lock & Unlock vehicle
11. Programming procedure complete
12. Remove key
13. Close drivers door.
14. Repeat step 1-13 for additional remotes.

RADIO REMOTES 2 & 3 BUTTON TYPES

1. Obtain all remotes to be coded up to a maximum of 3.
2. Switch ignition on and repeat the following three times. Press the lock button, switch the ignition off and back on, press lock button again.
3. System should now lock or unlock.
4. Press the lock button of all remotes to be coded- the car should respond to this by locking/unlocking each time.
5. Switch the ignition off and test all remotes.
Accord (with an 8E transponder, not a flip blade) (07 >)

Notes: A. Maximum of 3 can be programmed.

Procedure
1. Switch ignition ON.
2. Press LOCK button on remote.
3. Switch ignition OFF
4. Switch Ignition ON
5. Press LOCK button on remote
6. Switch ignition OFF
7. Switch Ignition ON
8. Press LOCK button on remote
9. Switch ignition OFF
10. Switch Ignition ON
11. Vehicle locks and unlocks
12. Press lock button of each remote to be coded
13. Switch ignition OFF
14. Remove key from ignition
15. Check operation