Service Bulletin



Applies To: 2013 Accord – ALL except LX and Sport 2014 Accord Plug-In – ALL

HONDA

## Immobilizer System (Type 7, Keyless Access/One Push Start)

#### BACKGROUND

Some 2013 Accords (EX and Touring models) and the 2014 Accord Plug-In have a Type 7 OPS (One Push Start) immobilizer system and a keyless access system. With the remote, you can lock/unlock the doors, and unlock the trunk. You start the engine by using the engine start/stop (ESS) button with the remote inside the vehicle.

NOTE:

- The 2013 Accord LX and Sport don't have the keyless access system (although you can lock/ unlock the door with the remote transmitter), and they use immobilizer keys for engine start/stop (See Bulletin 09-016).
- The engine in the 2014 Accord Plug-In may not start, even though the vehicle is in the ON mode.
- The Type 7 and Type 7 OPS systems differ from the Type 6 system with their use of two-way B-CAN communication wires for faster communication.

This service bulletin covers these subjects:

- Immobilizer OPS System Components
- Function and Operation of Main Components
- Replacing the PCM
- Replacing the Driver's Under-Dash Fuse/Relay Box (MICU)
- Registration After Replacing Immobilizer Components
- Starting the Engine Without the Remote

#### WARRANTY CLAIM INFORMATION

None. This service bulletin is for information only.

#### IMMOBILIZER OPS SYSTEM COMPONENTS

- Immobilizer Indicator
- Keyless Access System Indicator
- Engine Start/Stop Button Switch
- Power Control Unit
- PCM
- Remote Slot/Remote Slot Control Unit
- Keyless Access/OPS Control Unit
- Under-dash fuse/relay box (MICU) with built-in IMOES unit and 2-wire B-CAN communication
- Electric Steering Lock (with built-in control unit)
- Keyless Access Remotes

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**CUSTOMER INFORMATION:** The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Honda automobile dealer.



# FUNCTION AND OPERATION OF MAIN COMPONENTS

#### Immobilizer System

This system consists of a transponder built into the remote, a remote slot control unit (with built-in immobilizer function), a driver's MICU (with built-in IMOES unit), an immobilizer indicator, and the PCM.

# Keyless Access System, One Push Start System, and Remote

The keyless access system consists of a keyless access control unit, a power control unit, an engine start/stop switch, an electric steering lock, a remote slot, and outer-handle touch sensors/door lock switches. It also has LF (low frequency) antennas, RF (radio frequency) units, a keyless buzzer, and a keyless access system mode switch.

The system may not work if the remote's battery is weak, if the remote is covered by metal, if the vehicle's battery is weak, or if there is a strong electrical current nearby.

Each keyless access remote has a built-in key. This key is used to lock/unlock the driver's door when the remote battery (or vehicle battery) becomes weak or the power door lock/unlock buttons don't work. You cannot start the engine with this key. To replace a builtin key, you need the key number (code) from the key number tag. The key number is also available on the iN (Interactive Network).



The outer handle on each front door has a touch sensor. The sensor works with the remote so you can unlock each door by touch.

To unlock the remaining doors and the trunk, press the remote unlock button twice, or press the rear of the master door lock switch on the driver's door.

Unlocking all doors with one touch is a programmable feature in the multi-information display settings.

NOTE: The lock sensor buttons will not work if the remote is in the vehicle.





### Key Cutting Instructions

To cut a new built-in key, use an appropriate key blank and the Tri-Code H.S. Key Cutter (see the Tri-Code H.S. operation manual).

#### **Keyless Access System Indicator**

This indicator normally comes on for several seconds when you change the power mode to ON. If there is a problem, a message is displayed in the multiinformation display (MID):

#### KEYLESS START SYSTEM PROBLEM or

#### **KEYLESS ACCESS SYSTEM PROBLEM**

(Shut off the engine only when you are in a safe place. The vehicle may not restart.)

In both cases, the vehicle should be checked by a dealer.



IMMOBILIZER SYSTEM INDICATOR

#### **Engine Start/Stop Button**

This system uses an ESS button instead of an ignition switch to start and stop the engine. If you are carrying the keyless access remote, you can start the engine by pressing the ESS button with the brake pedal pressed and the shift lever in P or N. To stop the engine, press the ESS button when the vehicle is stopped.

The ESS button has four modes, OFF, ACCESSORY, ON, and START/STOP. Each time you press the ESS button while carrying the keyless access remote, the mode switches between OFF, ACCESSORY, and ON.

You can start the engine anytime by pressing the ESS button with the brake pedal pressed and the shift lever in P or N. Before leaving the vehicle, make sure the vehicle is in OFF mode and the green LED in the ESS button is off.

#### **REPLACING THE ECM/PCM**

If you replace the PCM, you must use the HDS to register the new PCM and the immobilizer keyless control unit to recognize each other's unique serial code or the engine cannot start.

#### Preparation

To replace the PCM, you need these items:

- Replacement PCM
- PCM code

NOTE: If you cannot log in to the iN screen on the HDS, you must retrieve the PCM Code from the Immobilizer Code Inquiry in the iN.

· HDS with the latest software

NOTE: Make sure the market, the date, and the time on the HDS setup screen are correct. Select the F12 key in the upper right corner to get the Set-up Details screen. Make sure Market is set to USA. Select the time display in the lower right corner to get the Date/Time Properties pop-up window. Make sure the date and time are correct. For details, see Honda Diagnostic System (HDS) Tablet Setup Instructions listed under Tool Information in ISIS.

#### Procedure

• Online, enter keywords **PCM REP**, and select **PCM Replacement** from the list.

#### REPLACING THE DRIVER'S UNDER-DASH FUSE/ RELAY BOX (MICU)

When you replace the under-dash fuse/relay box (MICU), you must use the HDS to register the IMOES unit with the immobilizer-keyless control unit; if you don't, the engine won't start.

#### Preparation

To replace the under-dash fuse/relay box (MICU), you need these items:

- Replacement under-dash fuse/relay box (MICU)
- PCM code

NOTE: If you cannot log in to the iN screen on the HDS, you must retrieve the PCM Code from the Immobilizer Code Inquiry in the iN.

· HDS with the latest software

NOTE: Make sure the market, the date, and the time on the HDS setup screen are correct. Select the F12 key in the upper right corner to get the Set-up Details screen. Make sure Market is set to USA. Select the time display in the lower right corner to get the Date/Time Properties pop-up window. Make sure the date and time are correct.

#### Procedure

• Online, enter keywords DRIVER MICU, and select Driver's Under-dash Fuse/Relay Box (MICU) Removal/Installation from the list.

#### REGISTRATION AFTER REPLACING IMMOBILIZER COMPONENTS

NOTE:

- Check for aftermarket electrical equipment that can cause problems with keyless access operation.
- During the registration, keep the keyless access remote away from computer equipment, and make sure the doors are closed.
- Programming the keyless access remote also programs the keyless transmitter.

#### After replacing the Remote Slot Control Unit/ Keyless Access Control Unit/PCM/Driver's MICU or Registration of the Remotes

- 1. If replacing the keyless access control unit, insert the remote into the remote slot.
- 2. Connect the HDS to the DLC.
- 3. If all the remotes are lost, select the ON mode according to the instructions on the HDS screen, then go to step 5.
- 4. Press the ESS button to select the ON mode.
- 5. Select **ONE-PUSH-START SYSTEM** from the system select menu, then enter **REGISTRATION** mode.
- 6. Select the appropriate control unit or **KEYLESS ACCESS REMOTES**, and follow the instructions on the HDS screen.
- 7. Press the ESS button to select OFF mode, and make sure the systems work normally with all remotes.

#### After replacing the Power Control Unit or the Electric Steering Control Unit

- 1. Connect the HDS to the data link connector.
- 2. Follow the instructions on the HDS screen.
- 3. After registration, make sure the systems work normally with all remotes.

### STARTING THE ENGINE WITHOUT THE REMOTE

If the remote is lost, you can still start the engine. This procedure is suitable when the customer has another remote at home and plans to drive straight home. This procedure is only a temporary fix. With the engine started, the immobilizer indicator stays on.

To start the engine without the remote, you need these items:

- Push-button access code (Do an immobilizer code inquiry on the iN to get the 10-digit code.)
- Immobilizer brake code (This five-digit code is also available on an immobilizer code inquiry.)
- Built-in key blank, or a suitable key cut to fit the door locks
- Key code for the vehicle
- Suitable key cutter

#### Procedure

- 1. Cut a new built-in key (or a key suitable to fit the door locks).
- 2. Unlock the driver's door with the new built-in key.
- 3. Release the parking brake.
- 4. Press and hold the ESS button. Enter the first digit of the 10-digit push-button access code by pulling up and releasing the parking brake that number of times. For example, if the first digit is four, pull up and release the parking brake four times. Release the ESS button; the LED in the ESS button stays on.
- 5. Without pressing the ESS button, enter the second digit of the code by pulling up and releasing the parking brake that number of times.

- 6. Press and release the ESS button twice. The ESS LED goes go off the first time you press the button and stays on after the second press.
- 7. Enter the third thru 10th digits the same way as the second digit. Press the ESS button twice after you enter each digit.

NOTE: After you enter the 10th digit and press the ESS button twice, the steering wheel unlocks, the vehicle goes into ON mode, and the LED in the ESS button flashes three times a second. The push-button access code is now entered into the system.

- 8. Enter the first digit of the five-digit immobilizer brake code by pulling up and releasing the parking brake that number of times. For example, if the first digit is six, pull up and release the parking brake six times.
- 9. Press the ESS button twice. The immobilizer indicator comes on.
- 10. Enter the second thru fourth digits the same way as the first digit. Press the ESS button twice after you enter each digit.
- 11. Press and hold the brake pedal, then enter the fifth digit of the code the same way as the previous digits. Press the ESS twice; the second press should start the engine. If the engine does not start, repeat steps 2 thru 11.

The engine can now be stopped and started for up to 10 minutes without re-entering the codes. To restart the engine during the 10 minutes, lock and unlock the driver's door with the new built-in key, then press the ESS button. If the engine is not started within 10 minutes, repeat steps 2 thru 11.