

November 06, 2025

Version 9

Updating Control Units/Modules with the Honda ECU Reprogramming Application

Replaces 01-023. Supersedes 22-100 dated April 27, 2024, to revise the information highlighted in **yellow**.

AFFECTED VEHICLES

All models with reprogrammable control units/modules.

REVISION SUMMARY

- Under REQUIRED TOOLS AND EQUIPMENT, information was removed, updated, and a new note was added.
- Under NETWORK SETTINGS, table was removed, link and information was added.
- Under REPROGRAMMING TIPS AND PRECAUTIONS, new screenshot was added.
- Under REPROGRAMMING TIPS AND PRECAUTIONS, new tool was added.
- Under STARTING UP THE APPLICATIONS, new step and new screenshot were added.

INTRODUCTION

Reprogramming a vehicle's control unit/module requires a dedicated i-HDS laptop and a Honda-approved Vehicle Communications Interface (VCI).

The procedures in this service bulletin are used and referenced in other service bulletins.

For detailed i-HDS information, refer to the *i-HDS Honda Diagnostic System Quick Start Guide* on the Service Information System (SIS).

Most 2002 and later Honda vehicles have reprogrammable control units/modules. To reprogram any of them, you need the vehicle, a Honda-approved VCI, and a laptop with the latest version of the i-HDS software suite. The i-HDS software suite includes the **Honda ECU Reprogramming** application, which is used to reprogram the vehicle's control unit/module(s).

This service bulletin describes these subjects:

- REQUIRED TOOLS AND EQUIPMENT
- REPROGRAMMING TIPS AND PRECAUTIONS
- REPROGRAMMING EQUIPMENT AND iN FAQs
- LAUNCHING THE APPLICATIONS

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Refer to the specific service bulletin for the symptom you are repairing.

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.

QUESTIONS ABOUT THE UPDATING EQUIPMENT OR THE INTERACTIVE NETWORK

For questions about the Honda supplied reprogramming equipment, call the Special Tools hotline at **800-346-6327**. For questions about iN, call the iN Support Center at **800-245-4343**.

REQUIRED TOOLS AND EQUIPMENT

The Honda Antares Capsule (see below) is the newest VCI for diagnostics and reprogramming. It is available through the Honda Tool and Equipment Program. To purchase, call **888-424-6857**. **The Honda Antares Capsule is the only VCI authorized to perform diagnostics and reprogramming.**

NOTE: **The DST-i is no longer authorized to perform ECU Reprogramming but can still be used for diagnostics.**



Interface Tools

NOTE:

For more information or replacement parts for the Honda Antares Capsule, refer to the HAC instructions/guides on SIS.

Honda Antares Capsule (HAC) Part Numbers

Honda Antares Capsule (HAC)	BSEHAC001
HAC Custom Right Angle 6' USB A to Mini B USB	BSEHAC20
HAC Protective Boot	BSEHAC30
HAC 3' DLC Extension Cable	BSEHAC70

NOTICE

If communication is disrupted while reprogramming, it may permanently damage the control unit/module. Do not use any VCI in wireless mode while reprogramming a control unit/module.

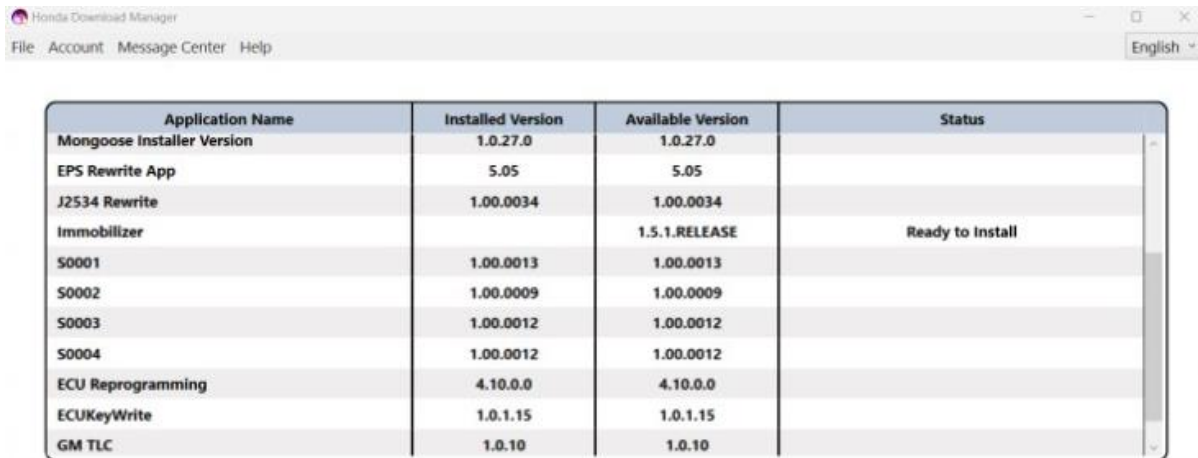
NETWORK SETTINGS

The **Honda ECU Reprogramming** application requires Internet access to communicate with authorized Honda servers and for downloading calibrations files for vehicles. Refer to the [Vehicle Diagnostic & Reprogramming and Over The Air System Updates Infrastructure Requirements](#) document for the list of required sites:

iN> Service> Service Bay> Wireless Information

REPROGRAMMING TIPS AND PRECAUTIONS

- When reprogramming a control unit/module on a new vehicle, make sure all fuses are installed and functioning.
- To prevent control unit/module damage, do not operate anything electrical (audio system, brakes, A/C, power windows, moonroof, etc.) while reprogramming.
- Check the corresponding service bulletin for any pre/post update instructions, such as submitting files, doing an ECU reset or idle learn, etc.
- Reference the **Honda Download Manager** application on the PC containing the i-HDS Software Suite. Check the **Installed Version** column in the **Honda ECU Reprogramming** row to confirm the version installed on the PC (See below). It should be the same or a later version than what is stated on the corresponding service bulletin.



Application Name	Installed Version	Available Version	Status
Mongoose Installer Version	1.0.27.0	1.0.27.0	
EPS Rewrite App	5.05	5.05	
J2534 Rewrite	1.00.0034	1.00.0034	
Immobilizer		1.5.1.RELEASE	Ready to install
S0001	1.00.0013	1.00.0013	
S0002	1.00.0009	1.00.0009	
S0003	1.00.0012	1.00.0012	
S0004	1.00.0012	1.00.0012	
ECU Reprogramming	4.10.0.0	4.10.0.0	
ECUKeyWrite	1.0.1.15	1.0.1.15	
GM TLC	1.0.10	1.0.10	

- Do not connect any additional power supply to the vehicle communication interface (VCI) when it is connected to the vehicle; power is supplied through the DLC.
- Make sure the 12-volt battery is fully charged before starting an update
- Honda recommends using the Midtronics GR8-1100P AST in Power Supply Mode, the Midtronics DCA-8000 Dynamic Diagnostic Charging System in Reflash Mode, or the Associated Equipment Corporation ESS6100 100A Smart Charger in Power Supply | DIAG+, **512EVO** connected directly to the vehicle's 12-volt battery. They should be left connected during the entire procedure to maintain a steady voltage.

NOTE:

- If the vehicle's 12-volt battery drops below **10-volts** during the update, the programming status bar may not present accurately, or the **Honda ECU Reprogramming** application may display an error message.
- Do not use a lithium-ion jump pack to supply power to the battery during reprogramming. Lithium-ion jump packs are designed to provide pulses of high amperage and do not provide consistent power to the battery.

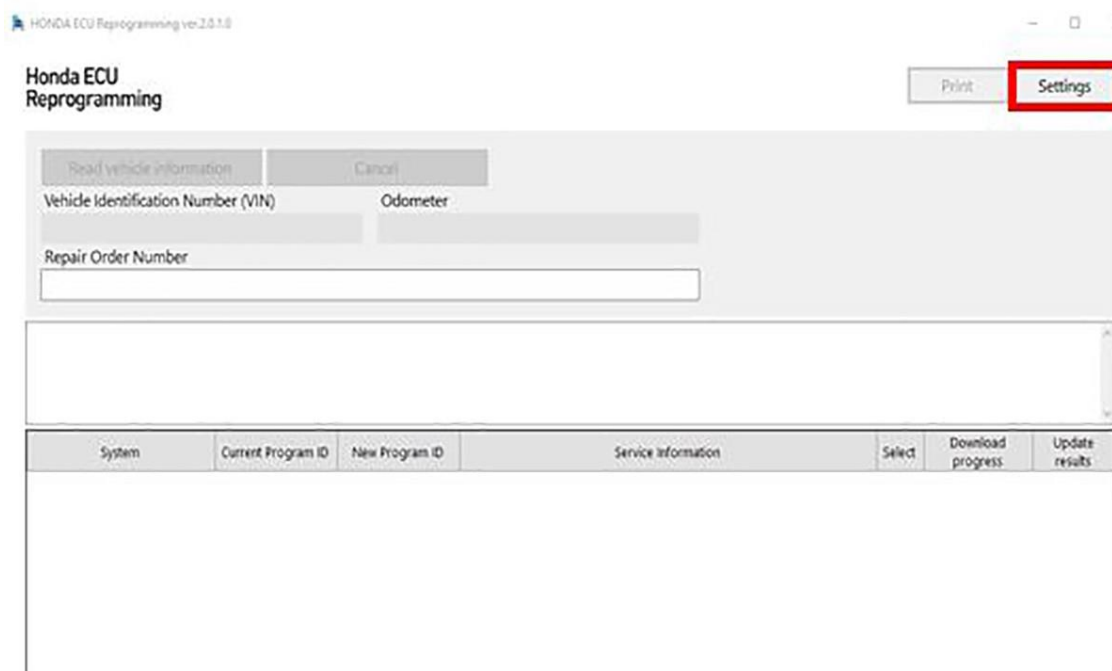
NOTICE

If a problem occurs while reprogramming, keep the ignition turned to ON and do the following to minimize the chances of damaging the control unit/module:

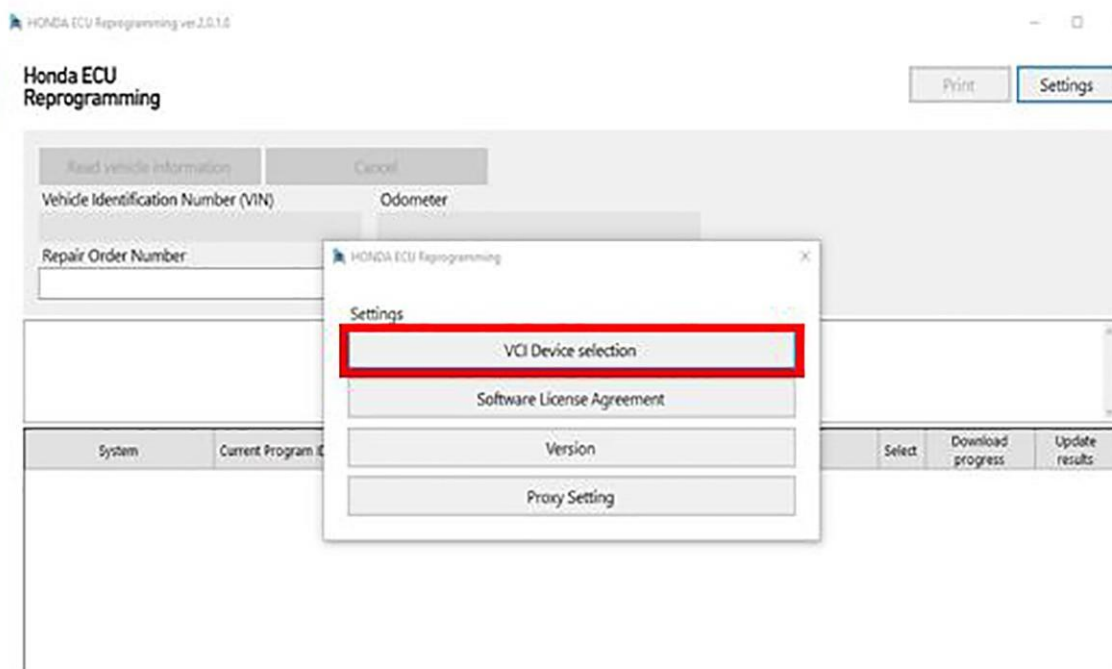
- Follow the on-screen instructions from the **Honda ECU Reprogramming** application.
- If the reprogramming issue persists, try disconnecting the VCI from the vehicle's DLC. Restart the **Honda ECU Reprogramming** application. Then, reconnect the VCI to the vehicle's DLC and retry the reprogramming procedure.
- If the message **Ensure all connections are secured between the PC, VCI, and Vehicle** appears, make sure the VCI name correctly matches the VCI device in use. Example name: Denso DST-i.

NOTE: Unnecessary or incorrect repairs resulting from a reprogramming session, will not be covered under warranty.

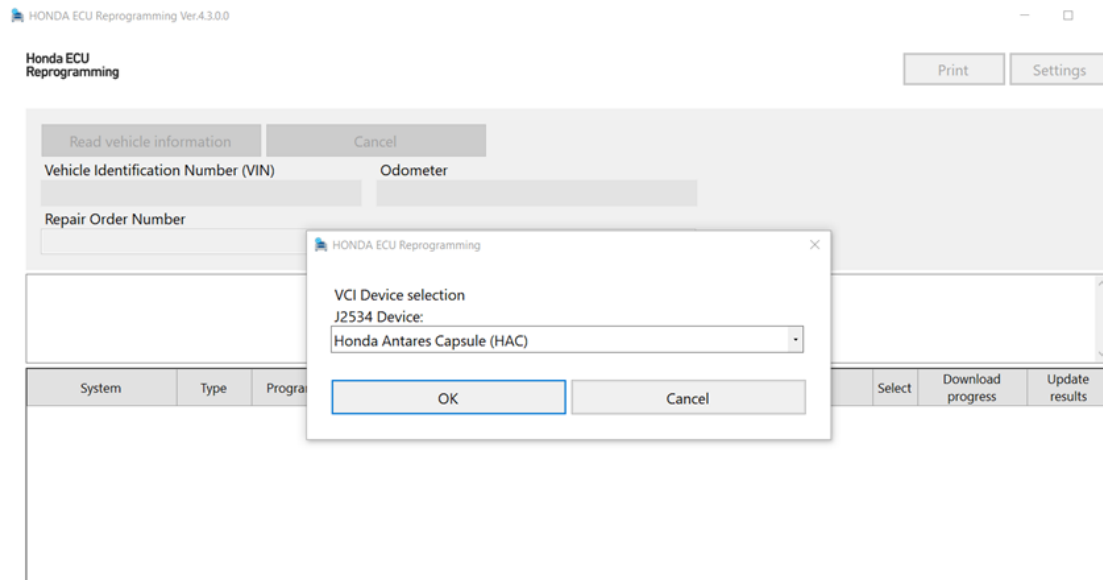
1. Select the **Settings** icon at the top right of the initial screen.



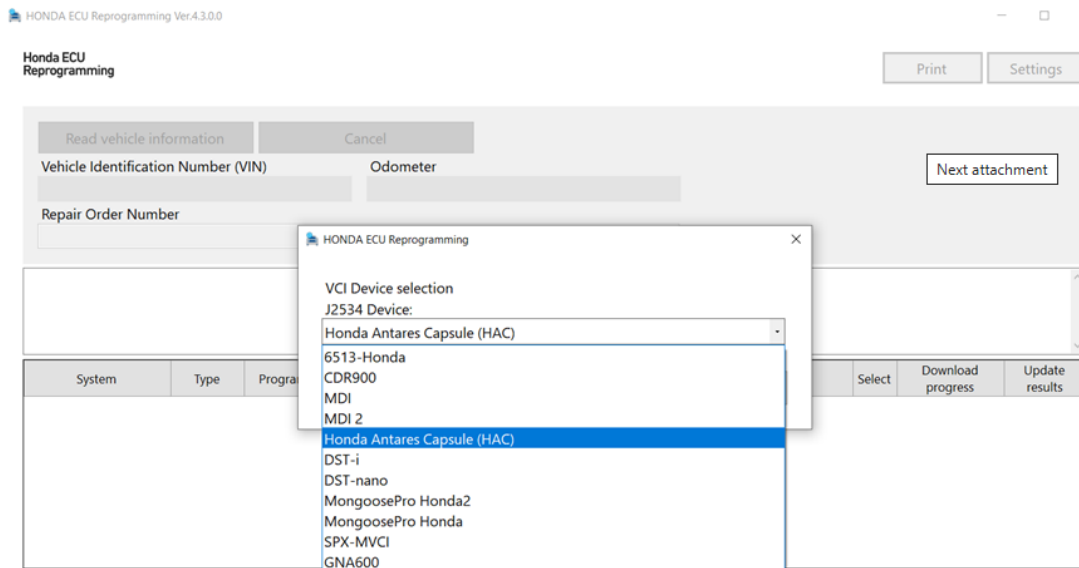
2. Make sure the correct VCI is selected by selecting **VCI Device selection**.



If the correct device is not selected, click on the **drop box**.



3. Confirm the correct device by **selecting it**.



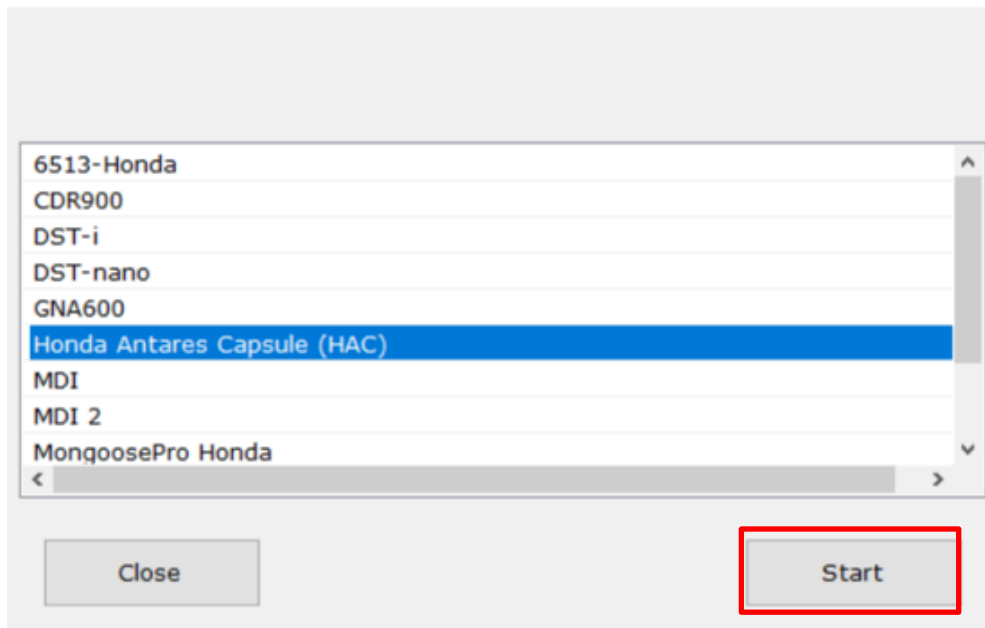
STARTING UP THE APPLICATIONS

1. Connect the VCI to the vehicle and double-click on the **i-HDS** icon from the desktop.

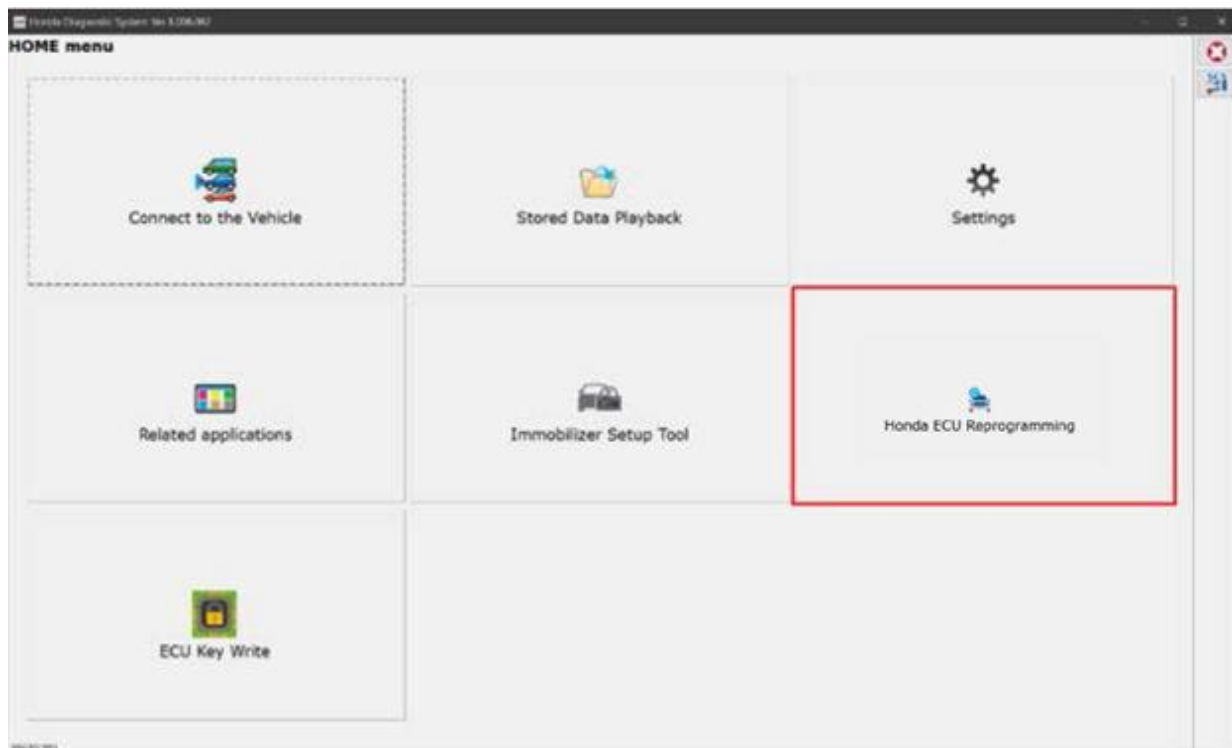


- When prompted, select the appropriate VCI from the list and select **Start**.

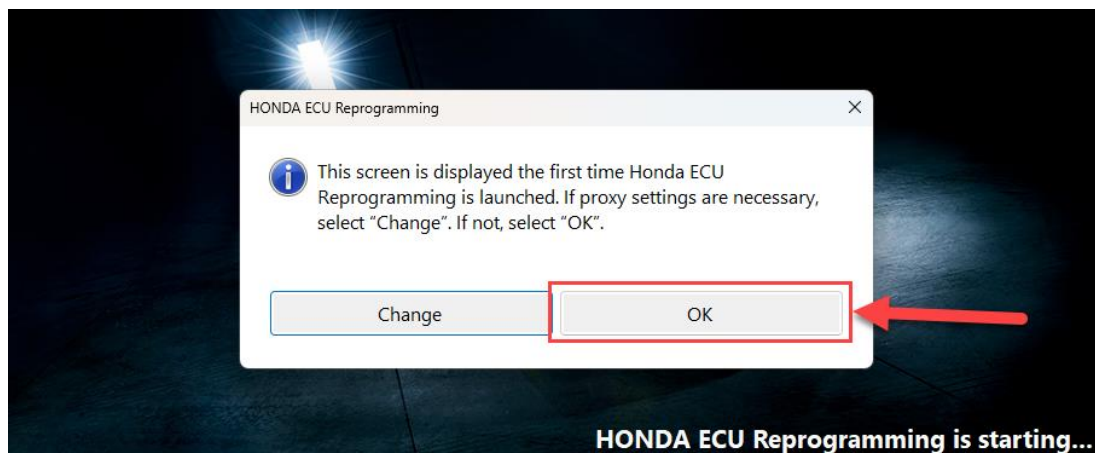
Honda Launch Pad



- On the i-HDS **HOME** menu, select the **Honda ECU Reprogramming** icon.



4. When the proxy settings screen appears, select **OK** to proceed to the iN login screen. This screen will only appear the first time Honda ECU Reprogramming is launched.



5. Enter a **Repair Order Number** to begin the reprogramming procedure.

A screenshot of the "Honda ECU Reprogramming" application window. The window title is "HONDA ECU Reprogramming ver.2.0.1.0". The main area has a header "Honda ECU Reprogramming" with "Print" and "Settings" buttons. Below the header are two buttons: "Read vehicle information" and "Cancel". Under these are two input fields: "Vehicle Identification Number (VIN)" and "Odometer". Below these is a "Repair Order Number" input field, which is highlighted with a red arrow pointing to it from the left. Below the input fields is a large empty text area. At the bottom is a table with the following columns: "System", "Current Program ID", "New Program ID", "Service Information", "Select", "Download progress", and "Update results".

System	Current Program ID	New Program ID	Service Information	Select	Download progress	Update results
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6. Select **Read vehicle information**.

Honda ECU Reprogramming ver.2.0.1.0

Honda ECU Reprogramming

Print Settings

Read vehicle information Cancel

Vehicle Identification Number (VIN) Odometer

Repair Order Number

123456

System	Current Program ID	New Program ID	Service Information	Select	Download progress	Update results
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7. Once this step is completed, a list of applicable systems will be displayed.

NOTE: Depending on the number of systems in the vehicle, this may take a moment.

Honda ECU Reprogramming

Print Settings

Read vehicle information Cancel

Vehicle Identification Number (VIN) mi

3CZRU6H52 94,530

Repair Order Number

123456

Reading H99B protocol ECU 21/21
Finished reading
Searching for software updates
Searching Completed

HONDA ECU Reprogramming

Please wait a moment...

System	Current Program ID	New Program ID	Service Information	Select	Download progress	Update results
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Honda ECU Reprogramming

Print Settings

Read vehicle information Cancel

Vehicle Identification Number (VIN) mi

3CZRU6H52 94,530

Repair Order Number

123456

Searching for software updates
Searching Completed
Ready to update
Select the software to update (some may not be selectable)

System	Current Program ID	New Program ID	Service Information	Select	Download progress	Update results
AWD	48311-54A-A500	48311-54A-3050	AWD Software Update	<input type="checkbox"/>	0%	
PGM-FI+AT/CVT/ECT	37805-51M-C520	Up to date		<input type="checkbox"/>	0%	
EPB	38924-T7J-H010	Up to date		<input type="checkbox"/>	0%	
EPS	38990-T7W-A020	Up to date		<input type="checkbox"/>	0%	
SRS	77959-T7X-C120	Up to date		<input type="checkbox"/>	0%	
Meter	78109-T7X-C120	Up to date		<input type="checkbox"/>	0%	
MICU	38808-T7S-C110	Up to date		<input type="checkbox"/>	0%	
OPDS (SW)	81170-T7W-A010	Up to date		<input type="checkbox"/>	0%	
ABS/BSA	57114-T7X-A220	Up to date		<input type="checkbox"/>	0%	

Estimated Time:0min

8. Select the system(s) available for reprogramming and that you wish to update by marking the boxes in the **Select** column.

NOTE: Multiple systems can be selected if new program IDs are available.

Honda ECU Reprogramming

Print Settings

Read vehicle information Cancel

Vehicle Identification Number (VIN) mi
3CZRU6H52 94,530

Repair Order Number
123456

Searching for software updates
Searching Completed
Ready to update
Select the software to update (some may not be selectable)

System	Current Program ID	New Program ID	Service Information	Select	Download progress	Update results
AWD	48311-54A-AE00	48311-54A-3050	AWD Software Update	<input type="checkbox"/>	0%	
PCM-FI+AT/CVT/DCU	37805-51M-C920	Up to date	*****	<input type="checkbox"/>	0%	
EPB	39024-T7J-H010	Up to date	*****	<input type="checkbox"/>	0%	
EPS	39990-T7W-A020	Up to date	*****	<input type="checkbox"/>	0%	
SRS	77959-T7S-A230	Up to date	*****	<input type="checkbox"/>	0%	
Meter	78109-T7X-C120	Up to date	*****	<input type="checkbox"/>	0%	
MICU	38908-T7S-C110	Up to date	*****	<input type="checkbox"/>	0%	
CPDS (SWS)	81170-T7W-A010	Up to date	*****	<input type="checkbox"/>	0%	
ABS/VEA	57114-T7X-A220	Up to date	*****	<input type="checkbox"/>	0%	

Estimated Time:0min

Start

9. Open the service information for each available update.

NOTE: The service information must be reviewed before the software can be applied to the vehicle.

HONDA ECU Reprogramming ver.3.0.7.0

Honda ECU Reprogramming

Print Settings

Read vehicle information Cancel

Vehicle Identification Number (VIN) mi
19UUB6F52MA000276 26,757

Repair Order Number
123456

Ready to update
Select the software to update (some may not be selectable)
Started downloading 37805-658-A870
Succeeded downloading 37805-658-A870

System	Current Program ID	New Program ID	Service Information	Select	Download progress	Update results
PCM-FI	37805-658-A860	37805-658-A870	Service Information	<input checked="" type="checkbox"/>	Ready	
SHIFTER	54008-TGV-A810	Up to date	*****	<input type="checkbox"/>	0%	
TCM	28102-BT1-A010	Up to date	*****	<input type="checkbox"/>	0%	
AWD	48311-50H-A010	Up to date	*****	<input type="checkbox"/>	0%	
ABS/VEA	57114-TGV-A050	Up to date	*****	<input type="checkbox"/>	0%	
ESB	46114-TGV-A040	Up to date	*****	<input type="checkbox"/>	0%	
EPS	39990-TGV-A060	Up to date	*****	<input type="checkbox"/>	0%	
SRS	77959-TGV-A040	Up to date	*****	<input type="checkbox"/>	0%	
Meter	78109-TGV-A210	Up to date	*****	<input type="checkbox"/>	0%	

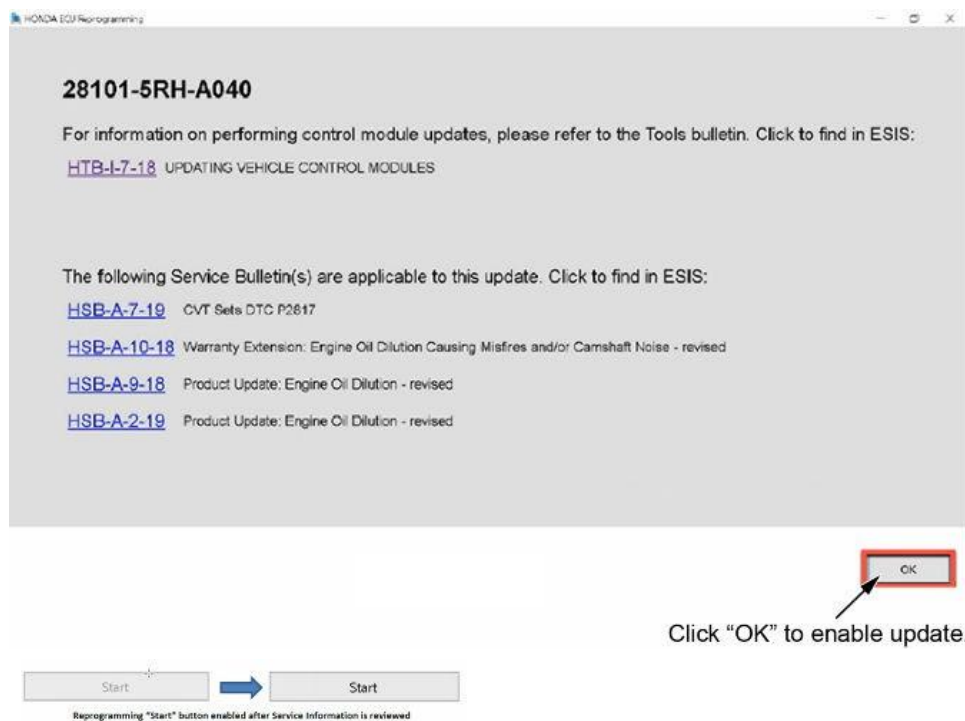
Estimated Time : Selected 3 min / All 3 min

Start

Click the hyperlink for service information review.

10. Select **OK** to confirm the service information has been reviewed. Once confirmed the reprogramming **Start** button will be enabled.

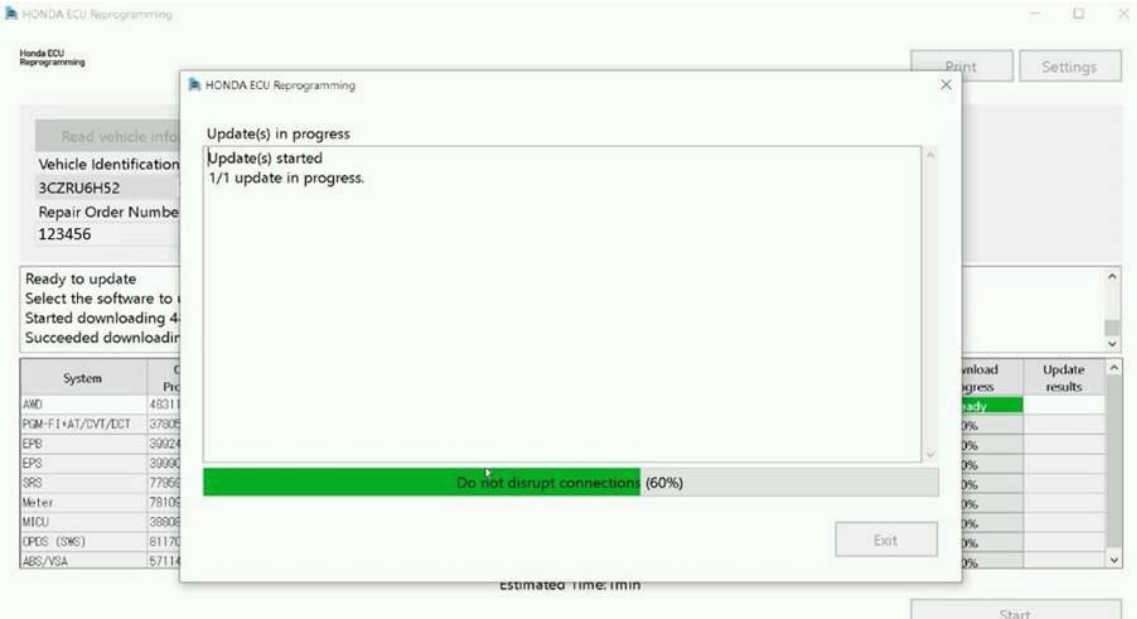
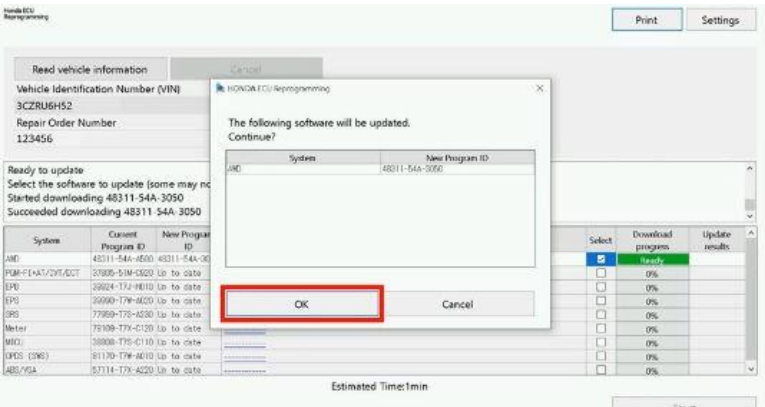
NOTE: If there is a hyper-link in the service information, it should take you to the applicable service bulletin.



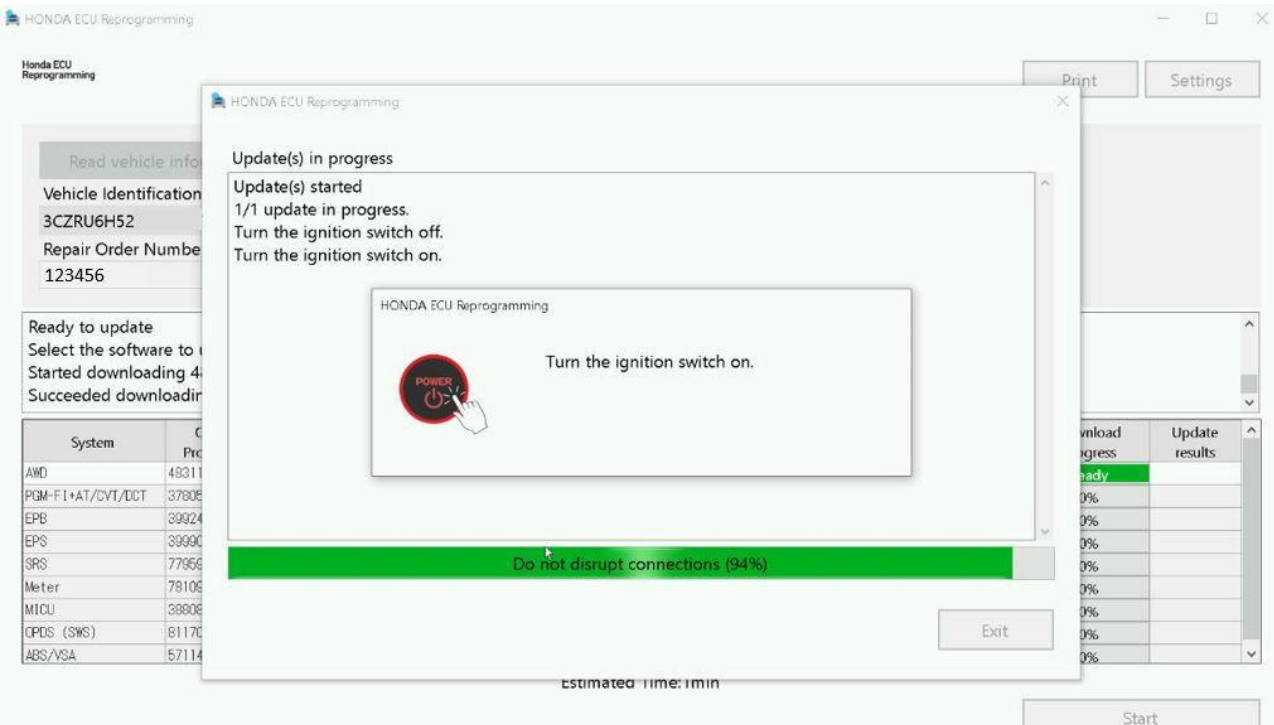
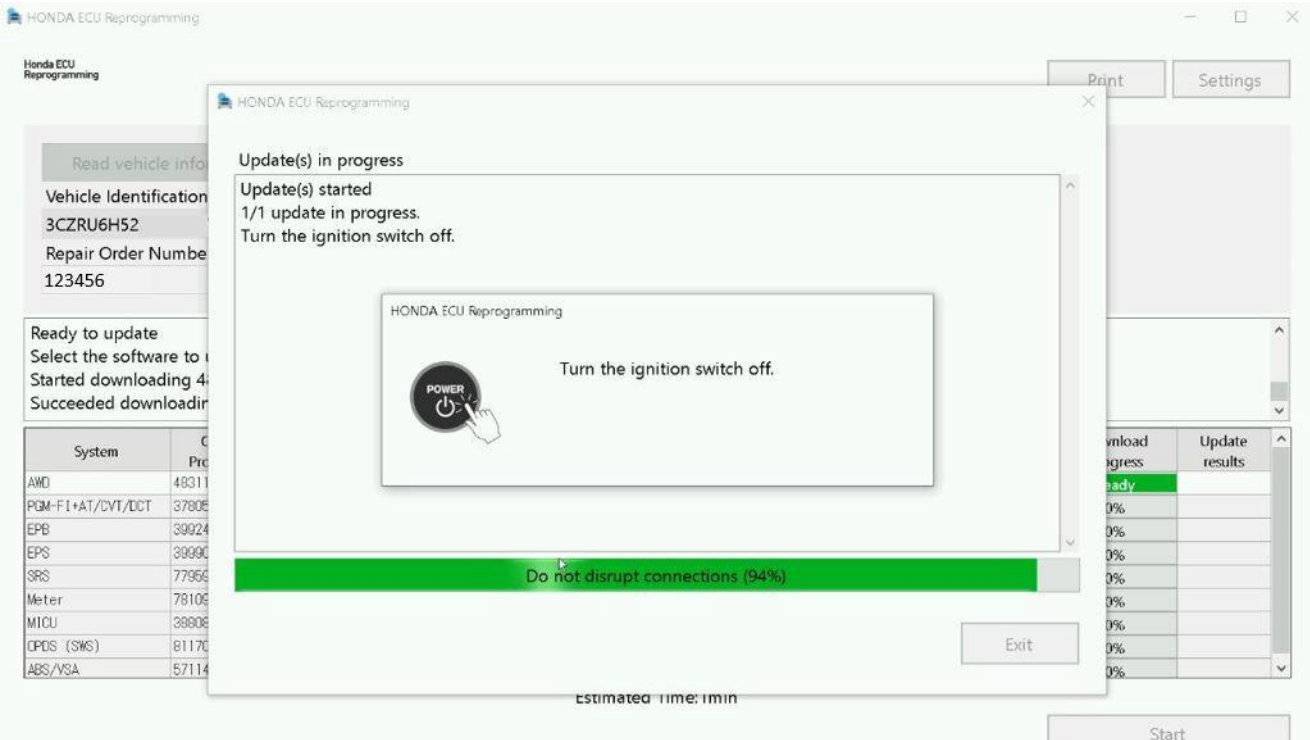
11. Follow the on-screen instructions. Confirm the update information to start reprogramming.

NOTE:

- If multiple systems are selected, they will be reprogrammed sequentially.
- Some updates are required to be installed via Over The Air (OTA) in the vehicle's audio unit. This can affect the ECU Reprogramming sequence.

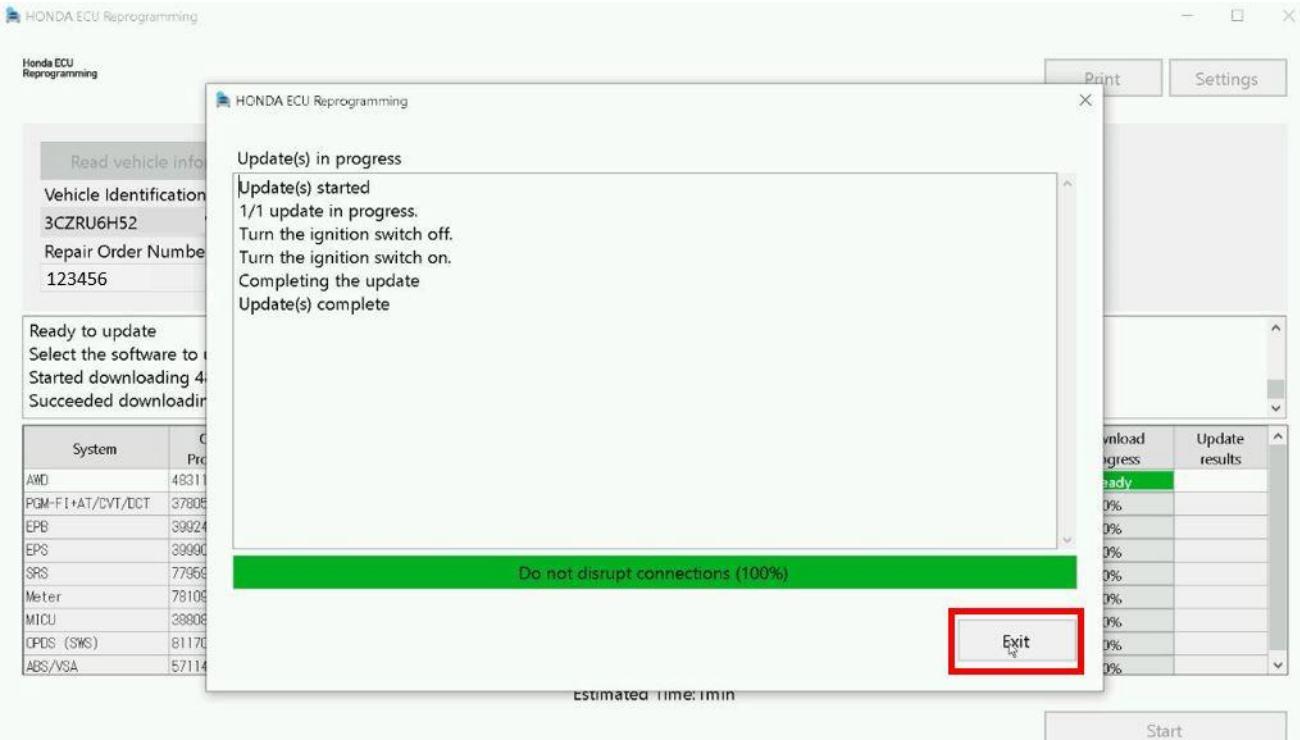


12. Follow the on-screen prompts for ignition cycling steps.
- NOTE: The application will play an audible alert when interaction is needed, such as turning the ignition switch OFF.
Your computer audio must be turned on for this alert.



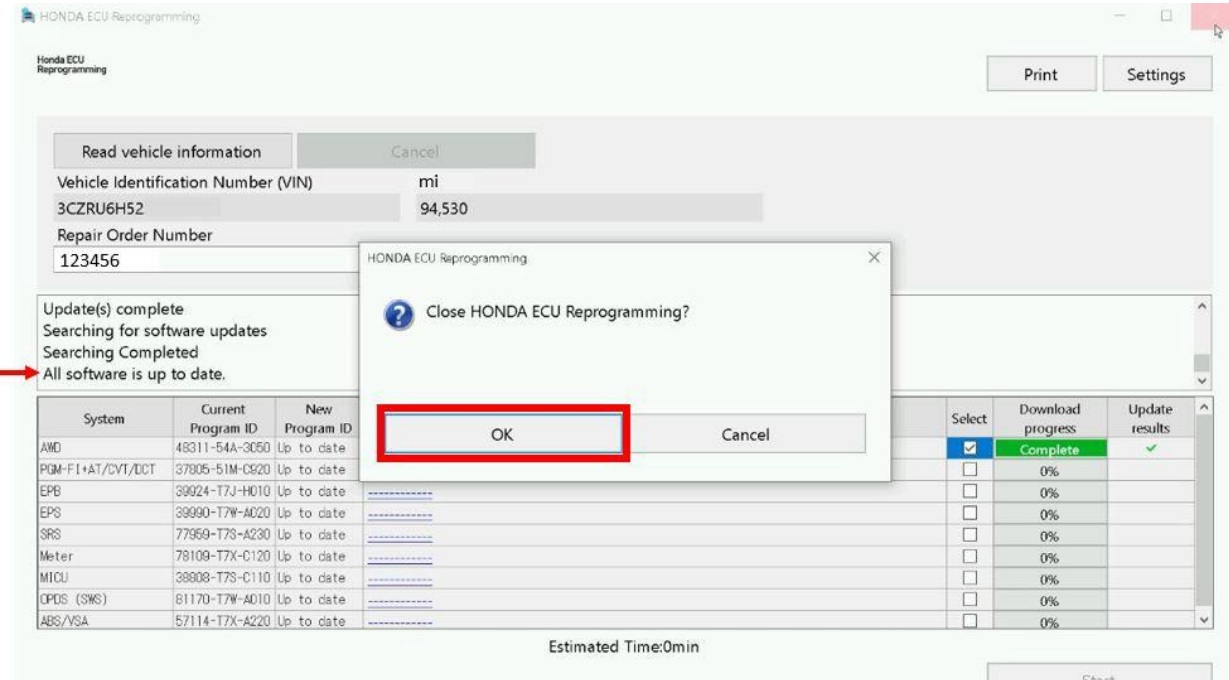
13. Select **Exit** when update(s) have completed.

NOTE: The **Print** button can create a .pdf format file that can be saved or printed.



14. The system will search for software updates again and show any other available updates, or confirm all software is up to date.

15. Close the **Honda ECU Reprogramming** application.



Legacy Reprogramming Application

The legacy reprogramming application J2334 Rewrite can be found in the Related Applications button.

NOTE: Support has ended for the application. Newer updates and rewrite files may not be available.

