HONDA

21-055

November 2, 2022

Version 2

2017–19 Ridgeline: Alarm Goes Off Intermittently

Supersedes 21-055, dated June 11, 2021, to revise the information highlighted in yellow.

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2017–19	Ridgeline	ALL	ALL

REVISION SUMMARY

Under PARTS INFORMATION, the trim level was corrected.

SYMPTOM

The vehicle's factory security system will sound off intermittently when the vehicle is parked, and the system is armed.

POSSIBLE CAUSE

An internal failure within the Keyless Access/TPMS Control Unit.

CORRECTIVE ACTION

Inspect the Alarm Trigger History with i-HDS and replace the Keyless Access/TPMS Control Unit if Ignition Switch (IG1) is listed under the Alarm Device.

PARTS INFORMATION

Part Name	Trim	Part Number	Quantity
Control Unit	RT (2WD and AWD)	38320-T6Z-A11	1
Control Unit	RTL, RTS, and SPORT (2WD and AWD)	38320-T6Z-A21	1
Control Unit	BLACK RTL (-E), and RTL (T 2WD and AWD-NAV/SUN), RTL (T 2WD and AWD - NAVI)	38320-T6Z-A31	1

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.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
0505A0	Inspect the Security System with the i-HDS.	0.3 hr.				
	RT 2WD/AWD - Replace the Keyless Access/TPMS control unit (includes re- programing all keys and TPMS sensor learn/tire check).	0.8 hr.			A21055A	
A	RTL 2WD/AWD, RTS 2WD/AWD, Sport 2WD/AWD - Replace the Keyless Access/TPMS control unit (includes re- programing all keys and TPMS sensor learn/tire check).	0.8 hr.	03124	03124 03217	A21055B	38320-T6Z-A11
	BLACK RTL (-E), RTL (T 2WD/AWD- NAV/SUN), RTL (T 2WD/AWD - NAVI) - Replace the Keyless Access/TPMS control unit (includes re- programing all keys and TPMS sensor learn/tire check).	0.8 hr.			A21055C	

Skill Level: Repair Technician

INSPECTION PROCEDURE

1. Connect to the vehicle using the i-HDS.

🛲 Honda Diagnostic System Ver.1.006.033		- 1	
HOME menu			٢
Connect to the Vehicle	Stored Data Playback	Settings	SCS T
Related applications	Immobilizer Setup Tool	J2534 Rewrite	
ECU Key Write			

2. Go to the Body Electrical menu and select Security.

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		Mode Menu			
► Vehicle Selection ► System Selection Menu ►		Gauges			
System Selection Menu		Lighting			
Refer to Service Manual for more information.		Door Lock			
✓: Selected		Keyless Transmitter			
· Selected	: Not equipped or not communicating	Power Window			
		U Wiper			
PGM-FI	AT	Security			
ІММОВІ	ABS/VSA	HVAC			
IMMORI	AD3/ V3A	12V AC Inverter			
Electric Powertrain	DIESEL	Body Electrical			
TPMS	SH-AWD	Brake System			
Active Damper System/Adaptive Damper Sys	One-Push Start	Real Time AWD/AWD with Intelligent Control			
Driving Support ACC/BSI/FCW/LKAS/IDSS		Acoustic Vehicle Alerting System			
EDLC	FC				
MAIN01-022					

3. Select History Data.

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▶ Vehicle Selection ▶ System Selection Menu ▶ Security ▶		
Test Mode Menu		
DTCs	> Help	
🖉 Data List	>	^
Snapshot	>	
History Data	>	
History Data Clear	>	
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4. If under the Alarm Device column, you see that **Ignition Switch (IG1)** is listed, proceed to the repair procedure. If is not listed, this bulletin does not apply, proceed with normal troubleshooting.

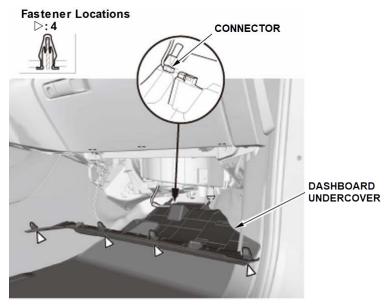
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▶ Vehicle Selection ▶ System Selection Menu ▶ Security ▶ History Dat	a		
HISTORY DATA			
Set Device Alarm Device Lock by Keyless Remote Ignition Switch (IG1) Lock by Keyless Remote Ignition Switch (IG1) Lock by Keyless Remote Ignition Switch (IG1)	Set Device Lock by Keyless Remote Lock by Keyless Remote Lock by Keyless Remote	Alarm Device Ignition Switch (IG1) Ignition Switch (IG1) Ignition Switch (IG1)	Latest 2 3

REPAIR PROCEDURE

- NOTE: Before beginning work, all of the vehicle's keys will need to be available to complete the Keyless Access Control
 - Unit Registration.
- 1. Remove the passenger's side dashboard lid.



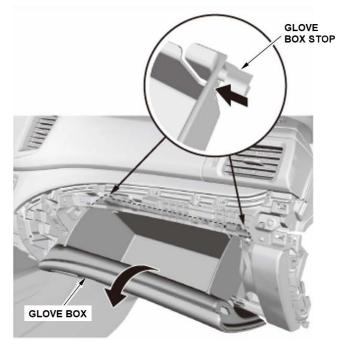
2. Remove the passenger's dashboard undercover, then disconnect the connector (for some models).



3. Remove the passenger's dashboard trim panel.

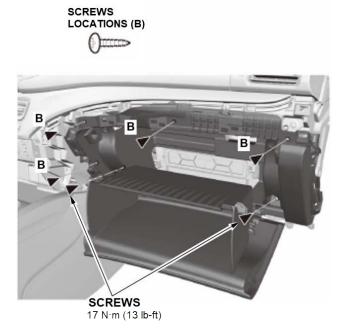


4. Open the glove box. Release both glove box stops by pushing them in passed the guide stop, then pull down the glove box.

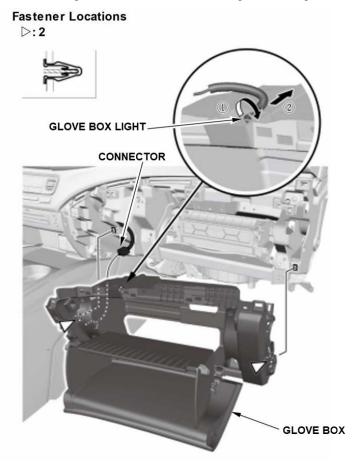


5. Remove the screws.

NOTE: If the screw threads are stripped, replace them with one-size larger (90140-TG7-A00).



6. Remove the glove box, then remove the glove box light and the connector.



7. Release the retaining clip, then remove the Keyless Access/TPMS control unit from the bracket and disconnect the connectors.



RETAINING CLIP

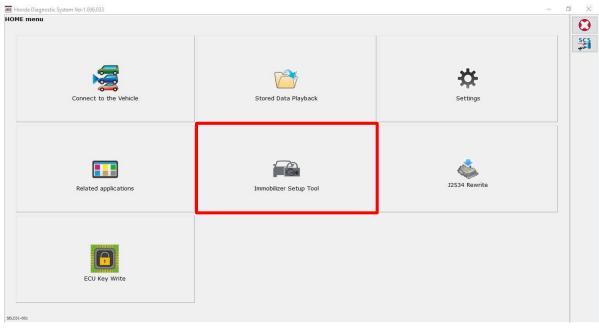
BRACKET

- 8. Install the replacement Keyless Access/TPMS Control Unit.
- 9. Install all remaining parts in the reverse order of removal.

10. Register the Keyless Access/TPMS control unit using the i-HDS Immobilizer Setup Tool. Follow the instructions when prompted by i-HDS.

NOTE:

- Make sure the 12-volt battery is fully charged before starting registration.
- Connect a fully charged jumper battery to the vehicle, and leave it connected during the entire procedure to maintain steady voltage.



11. Click through to show all the Registration Menu options. Select **Replace PCU/BACK UP CONTROLLER/KEYLESS ACCESS Control Unit**. Follow the instructions when prompted by i-HDS.

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т	ests	_			-	
NE-PUSH START >						0
KEYLESS ACCESS System Information >						0
BACKUP System Information >						0
Registration >						0
KEYLESS ACCESS Remotes Registration >						0
Replace PCU/BACK UP CONTROL/KEYLESS ACCCESS Control Unit					0 •	>
Replace ECM/PCM					0 •	>
Replace MICU/VSA Modulator					0 •	>
Replace Telematics Unit					0 •	>
			Use	r: Jonathan Madri	d VIN: 5F	PYK3F23HB00469
		Tests NE-PUSH START> KEYLESS ACCESS System Information > BACKUP System Information > Registration > KEYLESS ACCESS Remotes Registration > Replace PCU/BACK UP CONTROL/KEYLESS ACCCESS Control Unit Replace ECM/PCM Replace MICU/VSA Modulator	Tests NE-PUSH START> KEYLESS ACCESS System Information > BACKUP System Information > BACKUP System Information > Registration > KEYLESS ACCESS Remotes Registration > Replace PCU/BACK UP CONTROL/KEYLESS ACCCESS Control Unit Replace ECM/PCM Replace MICU/VSA Modulator	Tests NE-PUSH START> KEYLESS ACCESS System Information > BACKUP System Information > Registration > KEYLESS ACCESS Remotes Registration > Replace PCU/BACK UP CONTROL/KEYLESS ACCCESS Control Unit Replace ECM/PCM Replace EICM/PCM Replace Telematics Unit	Tests NE-PUSH START> KEYLESS ACCESS System Information > BACKUP System Information > Registration > KEYLESS ACCESS Remotes Registration > Replace PCU/BACK UP CONTROL/KEYLESS ACCCESS Control Unit Replace ECM/PCM Replace EICM/PCM Replace Telematics Unit	Tests NE-PUSH START> KEYLESS ACCESS System Information > BACKUP System Information > BACKUP System Information > Registration > KEYLESS ACCESS Remotes Registration > Replace PCU/BACK UP CONTROL/KEYLESS ACCCESS Control Unit Replace ECM/PCM Replace ECM/PCM

- 12. After registration, verify all remote related systems work normally with all remotes.
- 13. Perform the Tire Pressure Sensor ID with i-HDS by following the screen prompts.

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Vehicle Selection System Selection Menu							
System Selection Menu							
Refer to Service Manual for more information.							
✓: Selected	: Not equipped or not communicating						
PGM-FI	AT	SRS					
IMMOBI	ABS/VSA	EPS					
Electric Powertrain	DIESEL	Body Electrical					
TPMS	SH-AWD	Brake System					
Active Damper System/Adaptive Damper Sys	One-Push Start	Real Time AWD/AWD with Intelligent Control					
Driving Support ACC/BSI/FCW/LKAS/IDSS		Acoustic Vehicle Alerting System	0				
EDLC	FC						
MAIN01-022							

14. Select **Sensor ID Learning**, then follow the instructions when prompted by i-HDS.

NOTE: After the sensor IDs are memorized, reduce the pressure in all four tires to less than the appropriate specification, and check to see that the four tire indicators come on. Clear any DTCs that may have stored while performing this check.

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► Vehicle Selection ► System Selection Menu ► TPMS ►		
Test Mode Menu		
DTCs	Help	
🖉 Data List	>	^
Snapshot	>	
Q=Function Test	>	
Sensor ID Learning	>	
Threshold Rewriting	>	
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