Manufacturer Name :Honda (American Honda Motor Co.)Submission Date :DEC 17, 2020NHTSA Recall No. :20V-798Manufacturer Recall No. :K9E



Manufacturer Name :Honda (American Honda Motor Co.)Address :1919 Torrance Blvd.
Torrance CA 90501Company phone :1-888-234-2138

Vehicle Information :

Vehicle 1 : Vehicle Type : Body Style :	2020-2020 Hor	da CR-V Hybrid	l	
Doug Style : Dower Train :	ND			
Power Ham.				
Descriptive Information :	The recall population was determined based on manufacturing records. The manufacturing range reflects all possible vehicles that could potentially experience the problem. Only certain vehicles with a power converter unit (PCU) installed that contains transistors with a high concentration of dopant injections are included in the recall. Similar vehicles not included in the recall had PCUs installed that contain transistors with an appropriate concentration of dopant injections. The number of affected units is 4,728.			
Production Dates :	JAN 06, 2020 - J	UN 05, 2020		
VIN Range 1:	Begin :	NR	End: NR	☐ Not sequential
	0			_ 1
Vehicle 2:	2020-2020 Hor	da Accord Hyb	rid	
Vehicle Type :		Ũ		
Body Style :				
Power Train :	NR			
Descriptive Information :	The recall population was determined based on manufacturing records. The manufacturing range reflects all possible vehicles that could potentially experience the problem. Only certain vehicles with a power converter unit (PCU) installed that contains transistors with a high concentration of dopant injections are included in the recall. Similar vehicles not included in the recall had PCUs installed that contain transistors with an appropriate concentration of dopant injections. The number of affected units is 10,385.			
Production Dates :	OCT 21, 2019 -	UN 11, 2020		
VIN Range 1:	Begin :	NR	End: NR	□ Not sequential





Number of potentially involved : 27,838 Estimated percentage with defect : 2 %

Population :

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Vehicle 3: 20	20-2020 Hon	da Insight			
Vehicle Type :					
Body Style :					
Power Train : NI	2				
Descriptive Information : The mathematical structure in the constructure in the constr	e recall popula anufacturing r e problem. On ntains transis call. Similar ve ansistors with fected units is	lation was deter range reflects al ly certain vehic tors with a high ehicles not inclu an appropriate 12,601.	mined possib les with concen ded in t concen	based on manufacturi le vehicles that could a power converter un tration of dopant inje the recall had PCUs ins tration of dopant inje	ng records. The potentially experience nit (PCU) installed that ctions are included in the stalled that contain ctions. The number of
Production Dates : 00	CT 21, 2019 - M	MAY 13, 2020			
VIN Range 1 : Beg	gin :	NR	End :	NR	Not sequential
Vehicle Type : Body Style : Power Train : NH Descriptive Information : Th ma th co re tra aff	R anufacturing i e problem. On ntains transis call. Similar ve ansistors with fected units is	lation was deter range reflects al ly certain vehic tors with a high ehicles not inclu an appropriate 124.	rmined possib les with concen ded in t concen	based on manufacturi le vehicles that could a power converter un tration of dopant inje he recall had PCUs ins tration of dopant inje	ng records. The potentially experience nit (PCU) installed that ctions are included in the stalled that contain ctions. The number of
Production Dates : M	AY 18, 2020 - J	JUN 01, 2020			
VIN Range 1: Beg	gin :	NR	End :	NR	☐ Not sequential
Description of Defect : Description of the Defect :	The DC-DC c	onverter on cer	tain PC	Us contain transistors	with a high
-	concentration ambient tem DC converte recharging.	on of dopant inje peratures, coule r due to overvol	ctions. d ampli tage, wl	The increased doping fy the voltage output a hich prevents the 12-v	, along with cold and shut down the DC- volt battery from
FMVSS 1 :	NR				
FMVSS 2 :	NR				
Description of the Safety Risk :	If vehicle op charging ind power, incre	eration continue icator, a deplete asing the risk o	es after ed 12-vo f a crasł	illumination of the 12 olt battery can restrict 1.	-volt battery system or eliminate motive
Description of the Cause :	NR				
The info					

Identification of Any Warning NR that can Occur :			
Involved Components :			
Component Name 1: PCU Assy.			
Component Description : Accord Hybrid			
Component Part Number : 1B000-6C2-A21			
Component Name 2 · PCU Assy			
Component Description : Accord Hybrid			
Component Part Number : 1B000-6C2-C21			
Component Name 3: PCU Assy.			
Component Description : CR-V Hybrid			
Component Part Number : 1B000-5RD-A02			
Component Name 4: PCU Assy.			
Component Description : Insight			
Component Part Number : 18000-6L2-A21			
Component Name 5 : PCU Assy.			
Component Description : Insight			
Component Part Number: 1B000-6L2-C21			
Component Name 6 : PCU Assy.			
Component Description : Insight			
Component Part Number : 1B000-6LS-A41			

The information contained in this report was submitted pursuant to 49 CFR §573

Component Name 7 : PCU Assy. Component Description : Insight Component Part Number : 1B000-6LS-C41

Supplier Identification :

Component Manufacturer

Name :Mitsubishi Electric CorporationAddress :1-40 Hirohataku

Himeji, Hyogo 671-1123

Country: NR

Chronology :

November 2019 to March 2020

Honda launched investigations in the U.S. and several global markets that received reports of DC-DC converter failure. The supplier's assembly processes were evaluated, and Honda found that there were no specifications for the application of dopant injections to the transistors on the DC-DC converter. The supplier began monitoring for high concentrations of dopant injections in the transistors, which Honda identified to be the cause of the increased voltage in the DC-DC converter in low ambient temperatures. The increased voltage inadvertently activated a test circuit only used during vehicle manufacturing, which amplified the DC-DC converter voltage output. Voltage output above the system's threshold could result in overvoltage and shut down the DC-DC converter.

July to November 2020

Honda examined the multitude of scenarios potentially occurring due to DC-DC converter failure and the inability to recharge the 12-volt battery. The failure mode was also confirmed during re-creation testing in different hybrid electric vehicle models installed with the same PCU and DC-DC converter.

December 10, 2020

Honda determined that a defect related to motor vehicle safety existed and decided to conduct a safety recall.

As of December 10, 2020, Honda has received 53 warranty claims, 65 field reports, and no reports of crashes or injuries related to this issue.

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Description of Remedy :

Description of Remedy Program :	Registered owners of all affected vehicles will be contacted by mail and asked to take their vehicle to an authorized Honda dealer. The dealer will update the PCU software program for free. Owners who have paid to have these repairs completed at their own expense will be eligible for reimbursement, in accord with the recall reimbursement plan on file with NHTSA.
How Remedy Component Differs from Recalled Component :	NR
dentify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	Dealer notification is expected to begin on or around December 18, 2020. Owner notification is expected to begin on or around February 25, 2021.
Planned Dealer Notification Date :	DEC 18, 2020 - NR
Planned Owner Notification Date :	FEB 25, 2021 - NR

* NR - Not Reported

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