

December 9, 2020

Version 1

Vehicle Cannot Be Refueled Completely

AFFECTED VEHICLES

Year	Model	Trim Level	VIN Range
2017-18	Clarity Fuel Cell	ALL	ALL
2019	Clarity Fuel Cell	ALL	JHMZC4...KC000001 thru JHMZC4...KC000331
2020	Clarity Fuel Cell	ALL	JHMZC4...LC000001 thru JHMZC4...LC000158

SYMPTOM

The customer cannot refuel the vehicle completely at certain hydrogen stations.

POSSIBLE CAUSE

The hydrogen fuel fill receptacle does not conform to the SAE specifications of newer refueling nozzles.

CORRECTIVE ACTION

Replace the hydrogen fuel fill receptacle.

PARTS INFORMATION

Part Name	Part Number	Quantity
Charge Receptacle	17667-TRT-A02	1
O-Ring (3/8")	91377-5WM-A01	1
O-Ring (10.18 mm x 1.63 mm)	91379-5WM-A01	1
Supply Hose (H2) (O-Ring Set)	91012-5WM-A00	1

TOOL INFORMATION

Tool Name	Tool Number	Quantity
Defuel Joint Assembly	07AAK-TRTA201	1
Fuel Cell Service Equipment Kit	VSBHONFCVKT1	1
Helium Leak Detector	VSBHONFCV100	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
3101C0	Replace the fuel cell receptacle. (Includes venting the hydrogen tank one third full.)	2.8 hr	03214	03217	A290092A	17667-TRT-A02
3101C0	Replace the fuel cell receptacle. (Includes venting the hydrogen tank two thirds full.)	3.8 hr			A290092B	
3101C0	Replace the fuel cell receptacle. (Includes venting the hydrogen tank completely full.)	4.8 hr			A290092C	

Skill Level: Repair Technician

REPAIR PROCEDURE

⚠ WARNING

Compressed hydrogen gas is flammable and highly explosive. You could be killed or seriously injured if leaking hydrogen gas is ignited. Stop the fuel cell system, and keep heat, sparks, and flames away.

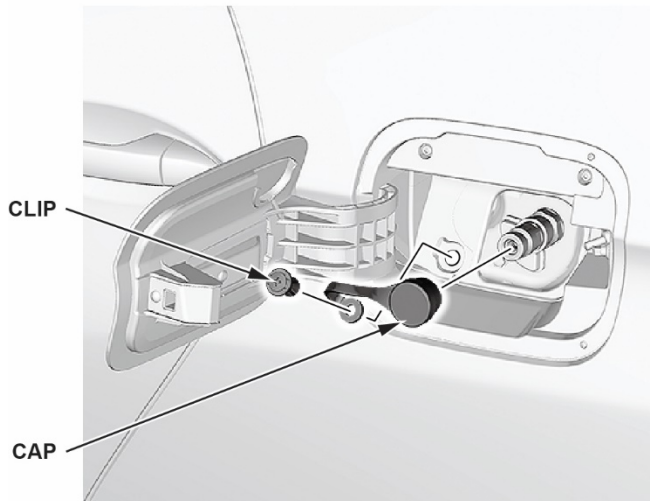
1. Refer to the service information procedure, Preparation Before Component Removal and follow the steps listed under the Fuel Fill Pipe/Receptacle before proceeding to step 2.

NOTES

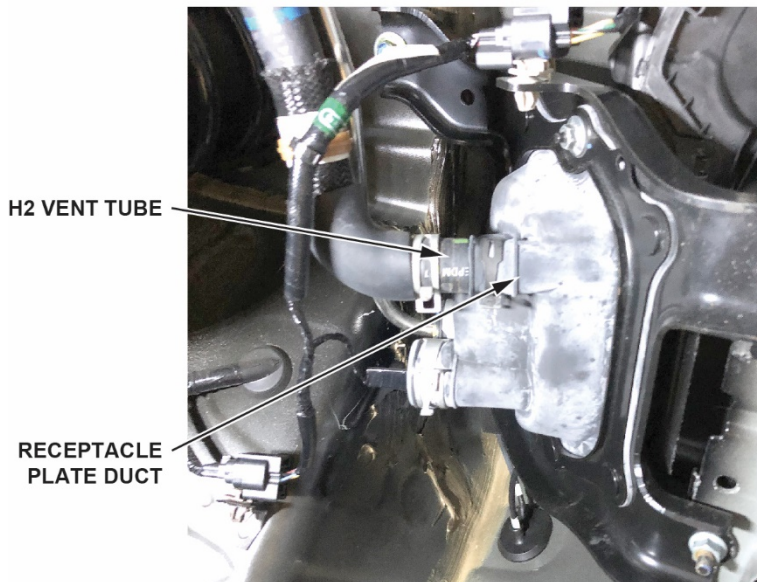
- Per California fire code, the hydrogen level in the hydrogen tanks must be less than 0.5 kg before the vehicle is brought inside the shop for repairs related to the hydrogen system. The vehicle must be outside when discharging and purging the hydrogen according to the procedures outlined in the service information.
 - Refer to job aid *Fuel Cell Service Equipment Kit and Portable Vent Stack* for proper use of the venting equipment.
2. With the vehicle on a lift, remove the driver's side rear wheel. Then, partially remove the inner fender liner as shown. Refer to the procedure, rear inner fender removal and installation in the service information.



3. Remove the clip from the rubber fuel cap. Then, remove the cap from the receptacle plate.



4. Remove the H2 vent tube from the rear of the receptacle plate duct.



5. Disconnect the two connectors (leak sensor and infrared transmitter) at the end of the wire harness exiting the receptacle duct.

CONNECTORS
Disconnect.



6. Move the plastic seal away from the nut on the H2 fill line in order to gain access to the nut with a wrench.

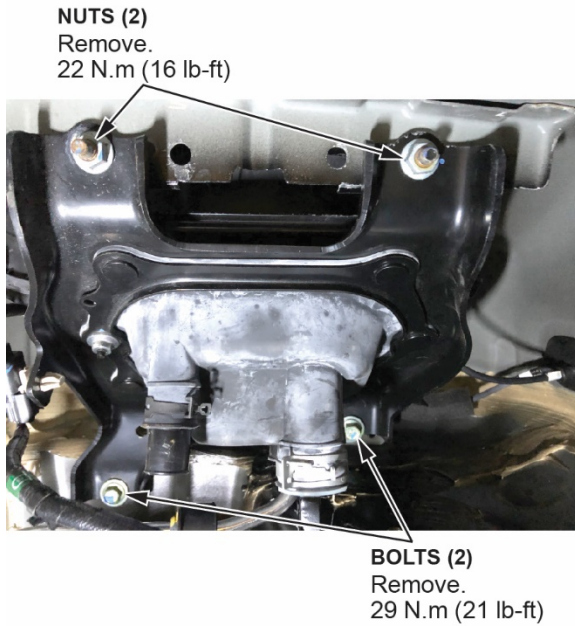
H2 FILL LINE NUT

PLASTIC SEAL



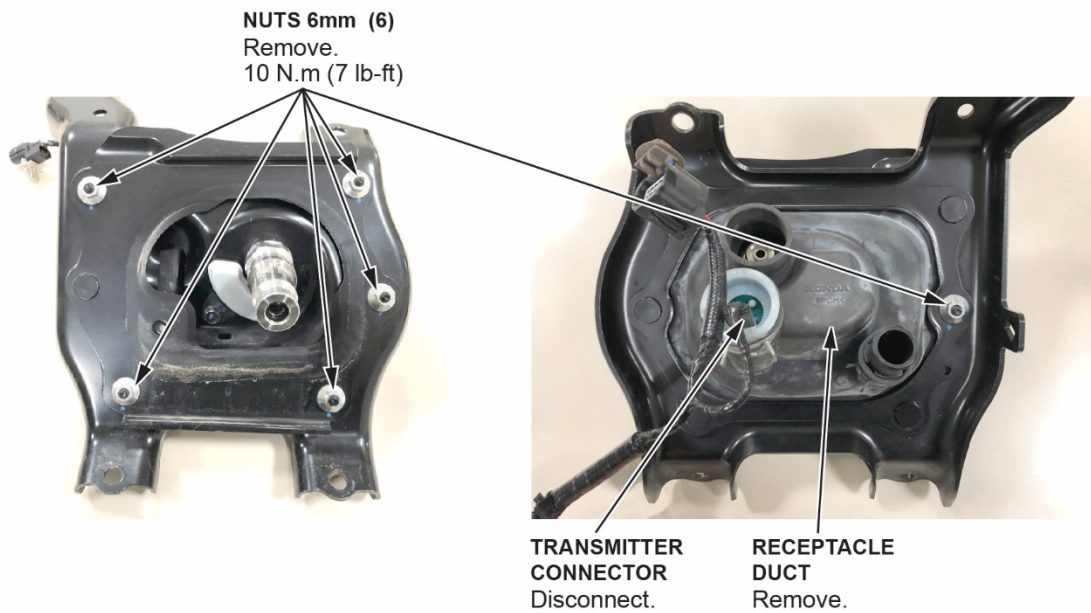
7. Disconnect the 13/16 nut attaching the fuel fill line to the back of the fuel fill receptacle. Reconnection torque **59.6 N.m (44 lb-ft)**.

8. Remove the two nuts and two bolts attaching the receptacle plate to the rear fender.



9. Remove the fill plate assembly from the wheel well.

10. Remove the six 6 mm nuts from the assembly, unplug the infrared transmitter, and remove the receptacle duct.



11. Remove the bolt from the infrared transmitter and remove it from the assembly.



INFRARED TRANSMITTER BOLT
Remove.
12 N.m (9 lb-ft)

12. Using a 32 mm socket, remove the nut from the rear of the fuel fill receptacle and remove the receptacle from the assembly.



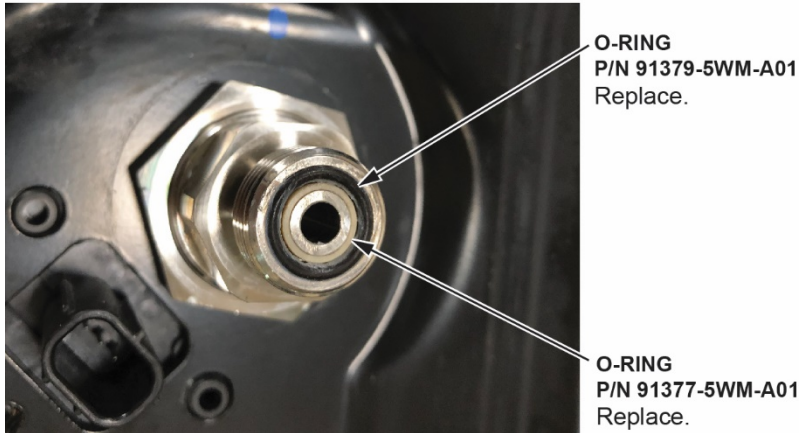
RECEPTACLE
Remove.

NUT
Remove.
66 N.m (49 lb-ft)

13. Install the new receptacle along with two new O-rings (PN 91377-5WM-A01 and 91379-5WM-A01), and torque the nut to **66 N.m (49 lb-ft)**.
14. Install all removed parts in the reverse order of removal.

NOTE

Be sure to torque all fasteners to the torque values specified by the service information.



15. Once the new part has been installed, do the Hydrogen Leak Check A procedure in the service information. Since no other high pressure fittings were touched during this procedure, it is only necessary to check the fittings between the fuel receptacle and the high pressure regulator for leaks.

NOTE

After doing the hydrogen leak check and purging the helium from the system, be sure to replace the H2 supply line O-ring (91012-5WM-A00) as indicated by the service information.

END