

**June 4, 2019**

Version 3

## Product Update: Clarity Fuel Cell Stack Replacement

Supersedes 19-006, dated February 16, 2019, to revise the information highlighted in **yellow**

### AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2017-18	Clarity Fuel Cell	ALL	Check the iN VIN status for eligibility.

#### **⚠ WARNING**

Failure to properly vent the hydrogen tanks and fuel lines prior to the fuel cell stack replacement can result in hydrogen gas leaks.

Hydrogen gas is flammable and highly explosive. You can be seriously injured or killed if the leaking hydrogen gas is ignited.

Turn off the fuel cell system, and keep heat, sparks, and flames away.

Always follow the precautions for the fuel cell system listed in the service information.

The power cables carry high voltage when the fuel cell system is energized. To avoid serious injury from electrical shock, do not turn on the system with the power cables disconnected.

### REVISION SUMMARY

- Under **BACKGROUND**, added additional information.
- Under **REPAIR PROCEDURE**, added additional information.

### BACKGROUND

Water improperly discharged inside the fuel cell stack mixes with hydrogen and oxygen, generating hydrogen peroxide. The hydrogen peroxide/water combination concentrates in one area, accelerating the deterioration of the electrolyte membrane in the fuel cell. This deterioration can reduce fuel cell output.

There are three similar bulletins for the 2017-18 Fuel Cell Clarity:

**19-006, Product Update: Clarity Fuel Cell Stack Replacement**

**19-050, Safety Recall: 2017-18 Fuel Cell Clarity: FC Electric Water Pump**

**19-054, Safety Recall: 2017-18 Fuel Cell Clarity: FC Electric Water Pump and Fuel Cell Stack / Product Update: 2017-18 Fuel Cell Clarity Fuel Cell Stack Replacement**

Do an iN VIN status inquiry, and follow the repair procedure in the indicated bulletin.

**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.

## CUSTOMER NOTIFICATION

Automobile Customer Service will notify lessees of affected vehicles and arrange an appointment with their dealer.

The fuel cell stack and stack kit are controlled parts and can only be ordered with an eligible VIN once this appointment has been made. Before ordering a fuel cell stack and stack kit, do an iN VIN status inquiry to make sure the vehicle needs a fuel cell stack replacement.

## CORRECTIVE ACTION

Replace the fuel cell stack and FC ion exchanger filter.

## WARRANTY CLAIM INFORMATION

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
3101GS	Replace the fuel cell stack and ion filter (includes venting).	13.4 hr	6CJ00	M3S00	A19006A	3A100-5WM-A30

Skill Level: Fuel Cell Certified Technician

### NOTE

Make sure you indicate the VIN, mileage, and date on the replaced part and its box.

## PARTS INFORMATION

Part Name	Part Number	Quantity
Fuel Cell Stack*	3A100-5WM-A30	1
Stack Kit*	063A0-5WM-305	1
Ion Filter	3H450-5WM-A01	1
Honda Genuine Fuel Cell Insulating Fluid - 50% Prediluted Formulation	OL999-9014	2
Antifreeze/Coolant	OL999-9011	1

\*These controlled parts require the VIN of an affected vehicle to place an order.

## REPAIR PROCEDURE

### NOTES

- When working on or around the fuel cell system, pay attention to the service precautions for the fuel cell system.
  - Refer to the job aid *Fuel Cell Service Equipment Kit and Portable Vent Stack* for proper venting procedures.
- Replace the fuel cell stack as described in the service information. Rotate the tires during the repair.

### NOTE

Click [HERE](#) to watch a video on fuel cell stack and FC ion exchanger removal.

2. Reset the maintenance minder (A1) using the i-HDS.

#### NOTES

If you are unable to successfully reset the maintenance minder, turn the ignition to OFF, and wait **10 minutes** after the air pump unit has stopped.

- After turning the ignition to OFF, the air pump unit will continue to operate for a minute or less (it may be longer in low temperatures) and shut off automatically. Once the air pump unit stops, wait at least **10 minutes** to start the maintenance minder reset procedure.
- To check if the air pump is running, go to the back of the vehicle and check the diluter (exhaust pipe outlet). You should hear and feel air coming out of it. Once you stop hearing and feeling the air, the air pump unit has stopped.

END