

# MIL ON With DTC(s) P1F6C71 and/or P1F6E71

**Service Category** Engine/Hybrid System

**Section** Engine Control

**Market** USA

Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2021 - 2022	Mirai	

## Introduction

Some 2021 – 2022 model year Mirai vehicles may exhibit a MIL ON condition with one or both of the following Diagnostic Trouble Codes (DTCs) present:

- P1F6C71 – Air Sealing Valve Actuator Stuck
- P1F6E71 – Air Pressure Regulating Valve Actuator Stuck

Follow the Repair Procedure in this bulletin to address this condition.

## Production Change Information

This bulletin applies to vehicles produced BEFORE the Production Change Effective VIN shown below.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Mirai	Motomachi	2WD	JTDAAAAA#PA007624

## Warranty Information

OP CODE	DESCRIPTION	TIME	OFFP	T1	T2
EL2304	Reprogram the EV Control Computer	0.5	89981-#####*	8A	74

\*Warranty claim MUST be submitted with the correct 10-digit OFFP. Choose the correct OFFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

### APPLICABLE WARRANTY

- This repair is covered under the Toyota Fuel Cell System Warranty. This warranty is in effect for 96 months or 100,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

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### Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89981-62110	89981-62260	Computer, EV Control	-
89981-62120	89981-62270		
89981-62150	89981-62280		
89981-62160	89981-62290		
89981-62170	89981-62300		
17C10-77030	17C10-77030	Regulator Assy, Fuel Cell Air Pressure	1
1A495-77020	1A495-77020	Gasket, FC Stack Air, No. 5	1

**NOTE**

The EV control computer should NOT be replaced as part of the Repair Procedure.

### Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	<a href="#">DCA-8000P T</a>	1

\*Essential SST.

**NOTE**

Additional SSTs may be ordered by calling 1-800-933-8335.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

\*Essential SST.

**NOTE**

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2023.02.001.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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**Calibration Information**

MODEL	ENGINE	CALIBRATION ID #	CALIBRATION ID	
			PREVIOUS	NEW
Mirai	3KM	CID 1	899836211500	<a href="#">899836211600 /</a> <a href="#">899856202200</a>
			899836211400	
		899836211300		
		899836211200		
		899836211100		
		899836211000		
		CID 2	899856202100	
			899856202000	
		CID 1	899836212500	<a href="#">899836212600 /</a> <a href="#">899856202200</a>
			899836212400	
		899836212300		
		899836212200		
899836212100				
899836212000				
CID 2	899856202100			
	899856202000			
CID 1	899836215500	<a href="#">899836215600 /</a> <a href="#">899856202200</a>		
	899836215400			
899836215300				
899836215200				
899836215100				
899836215000				
CID 2	899856202100			
	899856202000			
CID 1	899836216500	<a href="#">899836216600 /</a> <a href="#">899856202200</a>		
	899836216400			
899836216300				
899836216200				
899836216100				
899836216000				
CID 2	899856202100			
	899856202000			
CID 1	899836217500	<a href="#">899836217600 /</a> <a href="#">899856204200</a>		
	899836217400			
899836217300				
899836217200				
899836217100				
899836217000				
CID 2	899856204100			
	899856204000			

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### Repair Procedure

1. Confirm the condition exists.  
Does the vehicle exhibit a MIL ON condition with one or both of the following DTCs present?
  - P1F6C71 – Air Sealing Valve Actuator Stuck
  - P1F6E71 – Air Pressure Regulating Valve Actuator Stuck
  - **YES** — Continue to step 2.
  - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  
2. Use Techstream to confirm if the EV control computer calibration has been updated.  
Is the calibration ID listed in Techstream the latest calibration?
  - **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  - **NO** — Continue to step 3.
  
3. Determine if air sealing valve requires replacement.  
Is DTC P1F6C71 present?
  - **YES** — Continue to step 4.
  - **NO** — Go to step 6.
  
4. Remove the air sealing valve.  
Refer to TIS, applicable model and model year Repair Manual:
  - [2021 – 2022](#) Mirai:  
*Engine/Hybrid System – Intake/Exhaust – Intake / Exhaust: Air Control Valve: Removal”*
  
5. Install the NEW air sealing valve.  
Refer to TIS, applicable model and model year Repair Manual:
  - [2021 – 2022](#) Mirai:  
*Engine/Hybrid System – Intake/Exhaust – Intake / Exhaust: Air Control Valve: Installation”*
  
6. Determine if the air pressure regulating valve requires replacement.  
Is DTC P1F6E71 present?
  - **YES** — Continue to step 7.
  - **NO** — Go to step 9.

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### Repair Procedure (continued)

7. Remove the air pressure regulating valve.

Refer to TIS, applicable model and model year Repair Manual:

- [2021 – 2022](#) Mirai:  
*Engine/Hybrid System – Emission Control – “A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Removal”*

8. Install the NEW air pressure regulating valve.

Refer to TIS, applicable model and model year Repair Manual:

- [2021 – 2022](#) Mirai:  
*Engine/Hybrid System – Emission Control – “A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Installation”*

9. Reprogram the EV control computer.

#### NOTE

- The battery diagnostic tool MUST be used in Power Supply Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the battery diagnostic station, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in [T-SB-0107-20](#), *ECU Flash Reprogramming With Security Signature*, and flash the EV control computer with the NEW calibration file update.

10. Clear ANY DTCs and confirm the condition is no longer present.

#### NOTE

It may be necessary to turn the ignition switch OFF and wait for 10 minutes or more for ALL DTCs to clear.