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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for PHEV Model): DTC CHECK / CLEAR; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC CHECK / CLEAR

NOTICE:

When the diagnosis system is changed from normal mode to check mode or vice versa, all DTCs and Freeze Frame Data recorded in normal mode are cleared. Before changing modes, always check and make a note of DTCs and Freeze Frame Data.

HINT:

- DTCs which are stored in the air conditioning amplifier assembly can be displayed on the GTS. The GTS can display the confirmed, pending and permanent DTCs.
- If a malfunction is detected during the current driving cycle, confirmed and permanent DTCs are stored.
- Some DTCs are not stored if the air conditioning amplifier assembly does not detect the same malfunction again during a second consecutive driving cycle. However, such malfunctions, detected on only one occasion, are stored as pending DTCs.
- Confirmed and pending DTCs can be cleared by using the GTS or by disconnecting the cable from the negative (-) auxiliary battery terminal. However, permanent DTCs cannot be cleared using either of these two methods.
- After clearing current DTCs using the GTS (or by disconnecting the cable from the negative (-) auxiliary battery terminal), permanent DTCs can be cleared when the universal trip is performed and then the system is determined to be normal for the relevant DTCs. The driving pattern to obtain a normal judgment is described under the "Confirmation Driving Pattern" for the respective DTC.

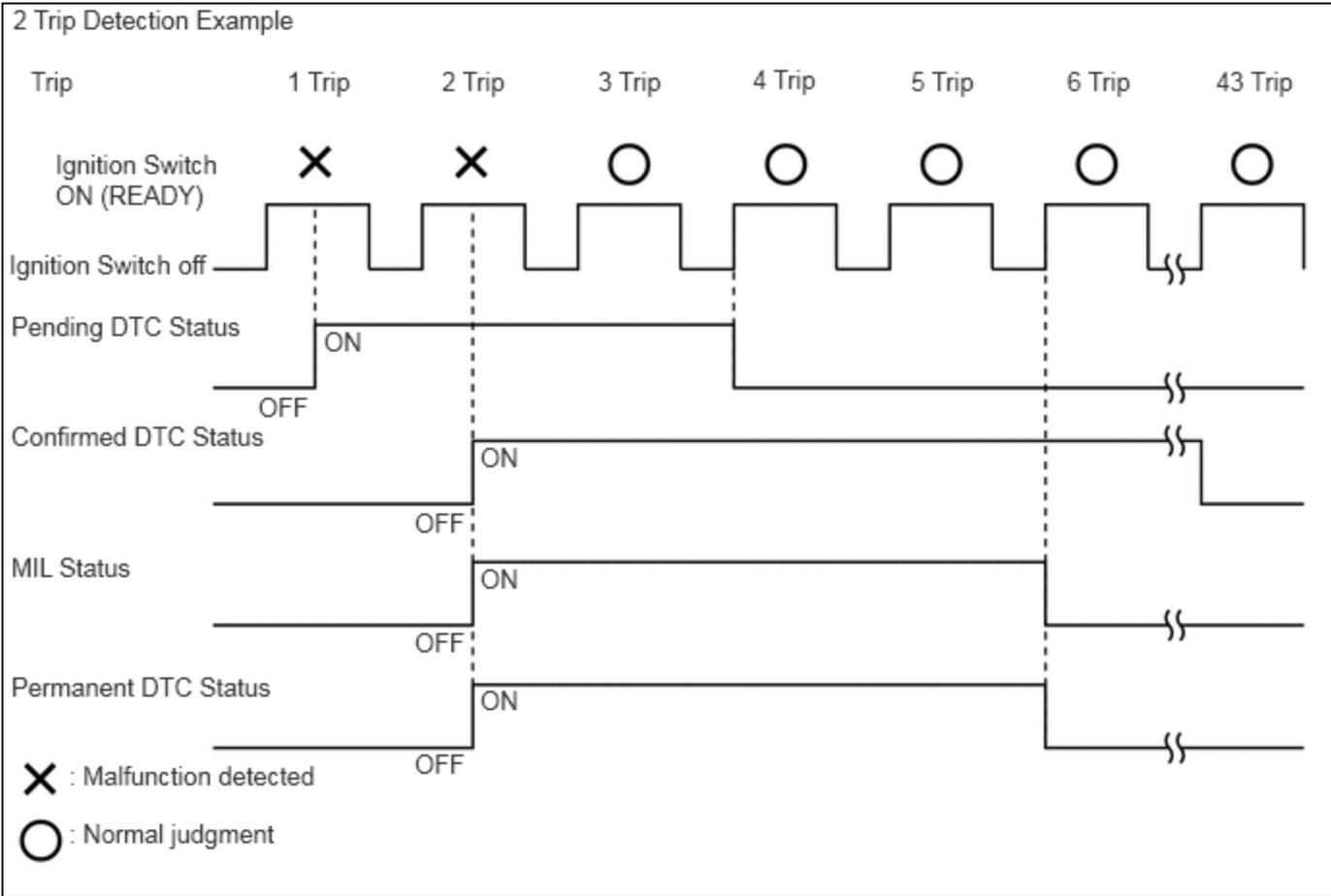
To clear permanent DTCs, all of the following conditions must be are met:

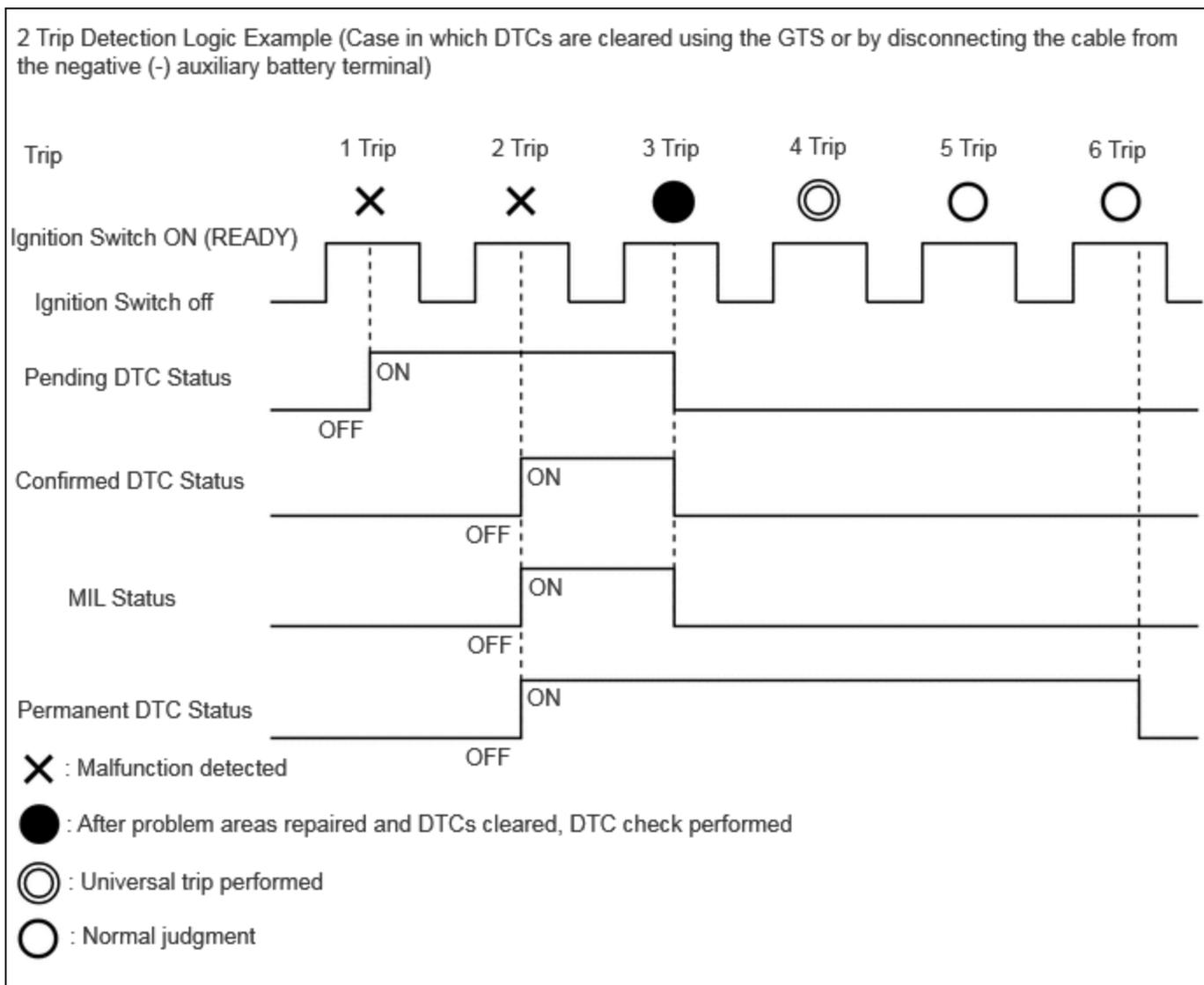
- There is a history that universal trip driving was performed.
- The vehicle has been judged as normal for 2 trips. (Normal judgment does not have to be performed in 2 consecutive trip, but normal judgment should occur in the latest trip.)
- No malfunctions are detected.

2 Trip Detection Logic Examples

Pending DTC	Store condition	Malfunction detected
	Clear condition	System determined to be normal or DTCs cleared using GTS or Cable disconnected from negative (-) auxiliary battery terminal
Confirmed DTC	Store condition	Malfunction detected (2nd trip)
	Clear condition	No malfunctions in 40 driving cycles or DTCs cleared using GTS or Cable disconnected from negative (-) auxiliary battery terminal
Permanent DTC	Store condition	Malfunction detected (2nd trip)
	Clear condition	Ignition switch turned to ON after normal judgment obtained in 3 consecutive driving cycles or

		After DTCs cleared using GTS or cable disconnected from negative (-) auxiliary battery terminal, universal trip performed and normal judgment obtained for 2 trips
MIL	ON	Malfunction detected (2nd trip)
	OFF	Ignition switch turned to ON after normal judgment obtained in 3 consecutive driving cycles or DTCs cleared using GTS or Cable disconnected from negative (-) auxiliary battery terminal



**HINT:**

Obtaining a normal judgment and performing a universal trip driving pattern can be done in the same driving cycle or in different driving cycles.

CLEAR PERMANENT DTC**OUTLINE**

After clearing current DTCs using the GTS (or by disconnecting the cable from the negative (-) auxiliary battery terminal), permanent DTCs can be cleared when the universal trip is performed and then the system is determined to be normal for the relevant DTCs. The driving pattern to obtain a normal judgment is described under the "Confirmation Driving Pattern" for the respective DTC.

To clear permanent DTCs, all of the following conditions must be are met:

- There is a history that universal trip driving was performed.
- The vehicle has been judged as normal for 2 trips. (Normal judgment does not have to be performed in 2 consecutive trip, but normal judgment should occur in the latest trip.)
- No malfunctions are detected.

(a) Check for DTCs.

Body Electrical > Air Conditioner > Trouble Codes**HINT:**

If "PERMANENT" in the top right of the screen displays "YES", permanent DTCs are stored.

(b) Select the "Generic" tab.

(c) Check if permanent DTCs are stored.

HINT:

If permanent DTCs are not output, it is not necessary to continue this procedure.

(d) Clear the DTCs.

Body Electrical > Air Conditioner > Clear DTCs

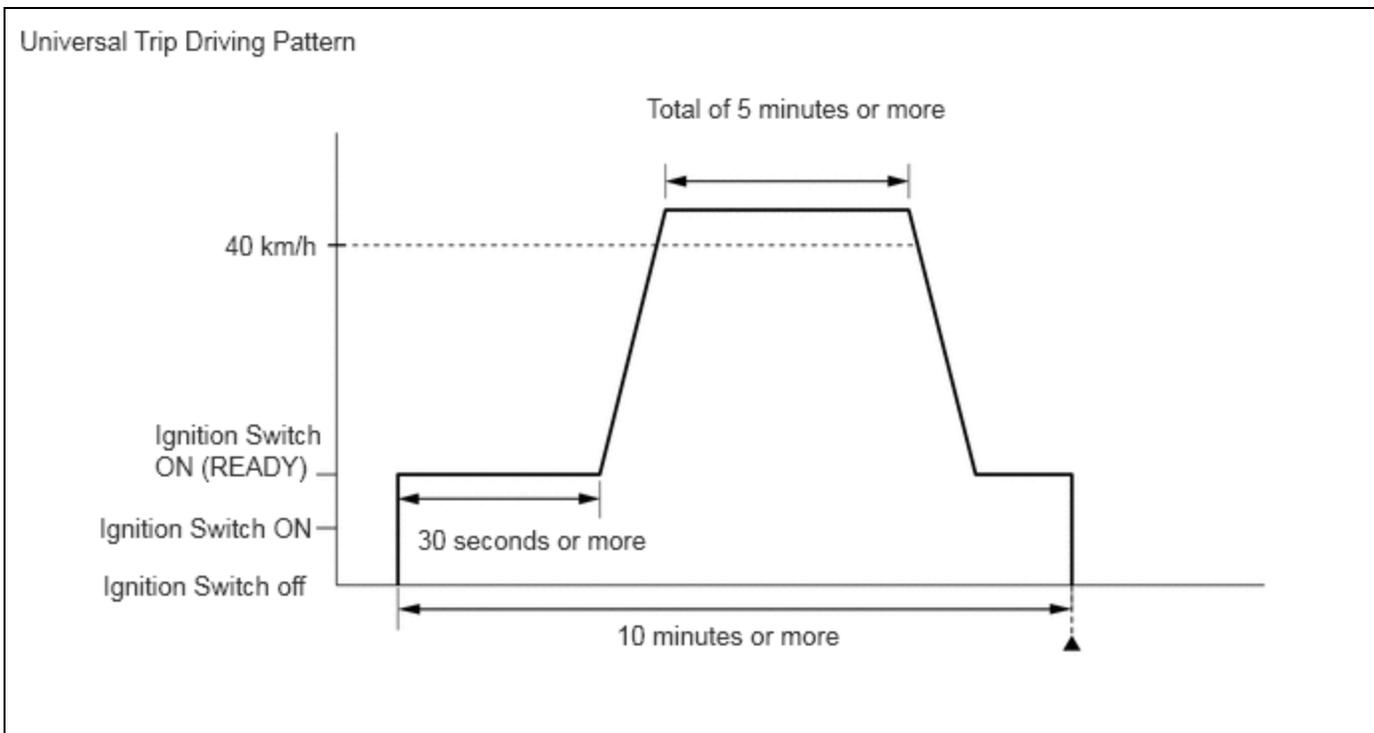
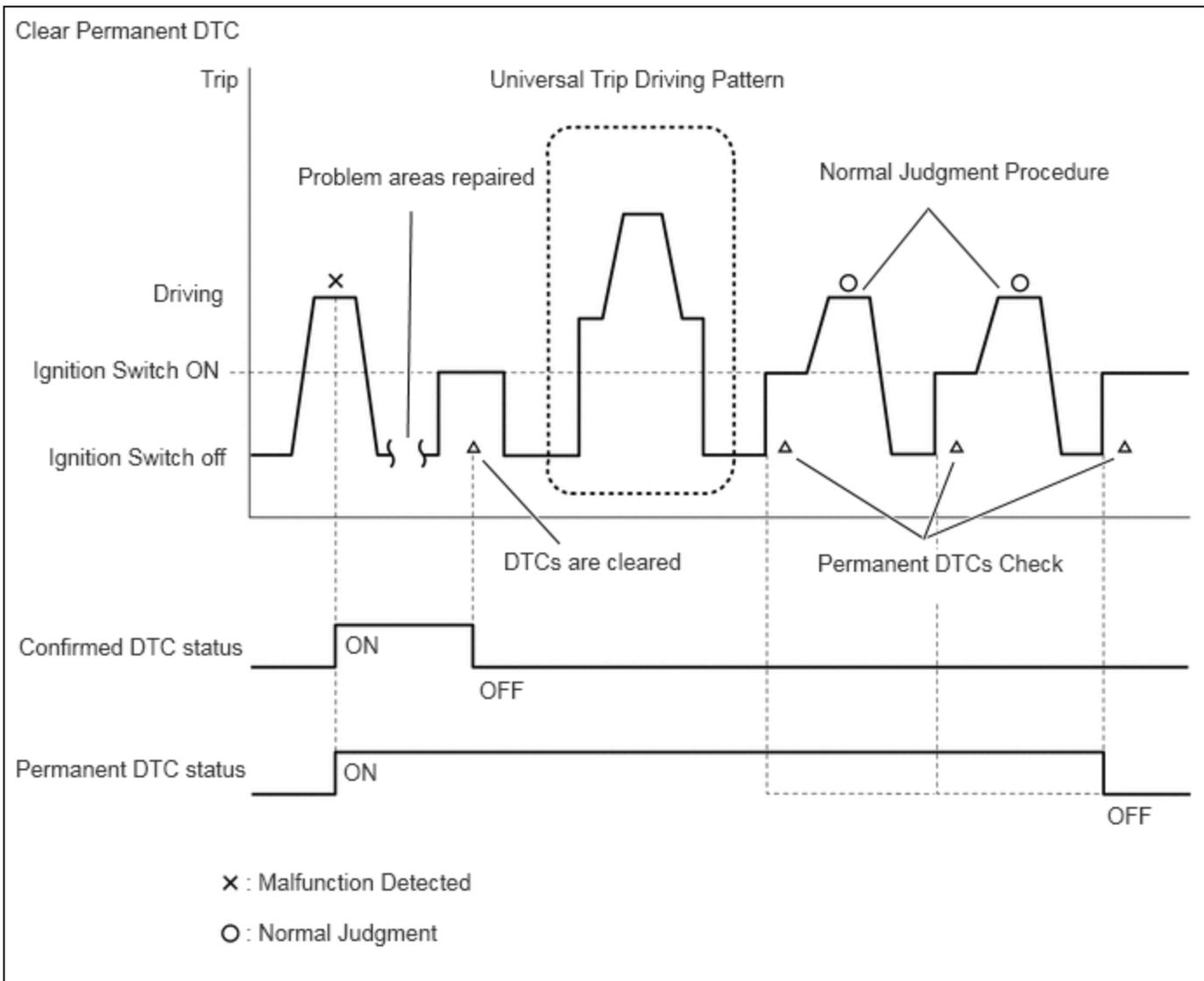
NOTICE:

Do not clear the DTCs or disconnect the cable from the auxiliary battery terminal after performing this step.

(e) Perform the universal trip.

HINT:

The driving pattern to obtain a normal judgment and the universal trip driving can be performed consecutively in the same driving cycle.



1. Turn the ignition switch to ON (READY) and wait for 30 seconds or more.

2. Drive the vehicle at 40 km/h (25 mph) or more for a total of 5 minutes or more.

CAUTION:

When performing a driving pattern, obey all speed limits and traffic laws.

HINT:

It is possible to complete the drive pattern even if the vehicle decelerates to less than 40 km/h (25 mph) during the driving cycle provided that the vehicle is driven at 40 km/h (25 mph) or more for a total of 5 minutes.

3. Allow 10 minutes or more to elapse from the time the ignition switch turned to ON (READY).

- (f) Turn the ignition switch off and wait for 2 minutes or more.
- (g) Turn the ignition switch to ON.
- (h) Check for DTCs.

Body Electrical > Air Conditioner > Trouble Codes

- (i) Check that the permanent DTCs have been cleared.

HINT:

If permanent DTCs are not output, it is not necessary to continue this procedure.

- (j) Perform the normal judgment procedure in the respective confirmation driving pattern of each output DTC.

HINT:

Do not turn the ignition switch off by mistake during this step.

- (k) With the ignition switch ON (READY) wait for 5 seconds or more. (Except when the ignition switch is already turned to ON (READY) or the engine is running)
- (l) Turn the ignition switch off and wait for 2 minutes or more.
- (m) Turn the ignition switch to ON.
- (n) Check for DTCs.

Body Electrical > Air Conditioner > Trouble Codes

- (o) Check that the permanent DTCs have been cleared.

HINT:

If permanent DTCs are not output, it is not necessary to continue this procedure.

- (p) Perform the normal judgment procedure in the respective confirmation driving pattern of each output DTC.

HINT:

Do not turn the ignition switch off by mistake during this step.

- (q) With the ignition switch ON (READY) wait for 5 seconds or more. (Except when the ignition switch is already turned to ON (READY) or the engine is running)
- (r) Turn the ignition switch off and wait for 2 minutes or more.
- (s) Turn the ignition switch to ON.
- (t) Check for DTCs.

Body Electrical > Air Conditioner > Trouble Codes

- (u) Check that the permanent DTCs have been cleared.

HINT:

If permanent DTCs are still present after the universal trip, turn the ignition switch off and wait for a while. Then, confirm that the permanent DTCs have been cleared.

