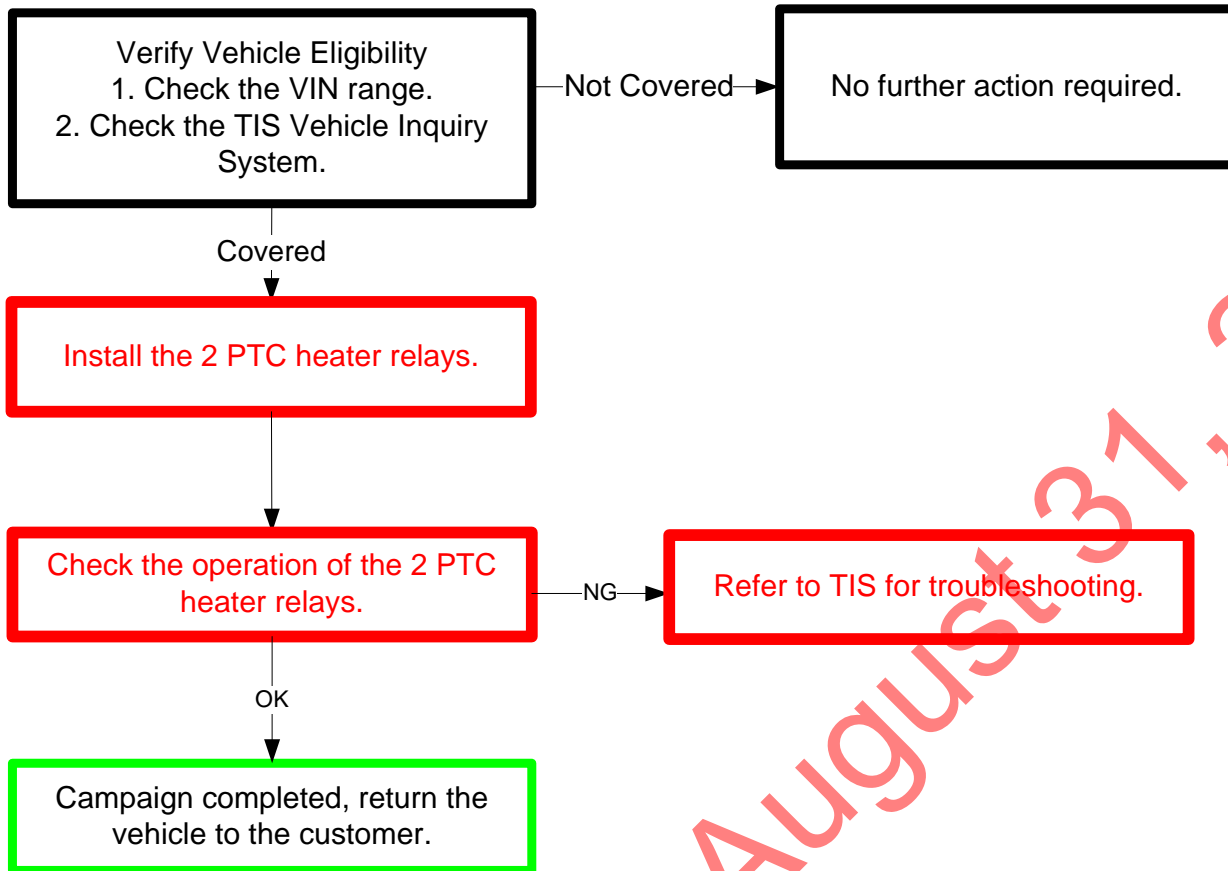


**TECHNICAL INSTRUCTIONS**  
**FOR**  
**LIMITED SERVICE CAMPAIGN CON**  
**INSTALLATION OF PTC HEATER RELAYS**  
**CERTAIN 2011 AND 2012 MODEL YEAR COROLLA**

LSC Expired on August 31, 2015

## I. OPERATION FLOW CHART



## II. IDENTIFICATION OF AFFECTED VEHICLES

### A. AFFECTED VIN RANGE

WMI	Year	VIN Range	
		VDS	Range
5YF	2011	BU4EE	P001001- P002741
	2012		P001017-P018413

#### NOTE:

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this LSC, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

### III. PREPARATION

#### A. PARTS

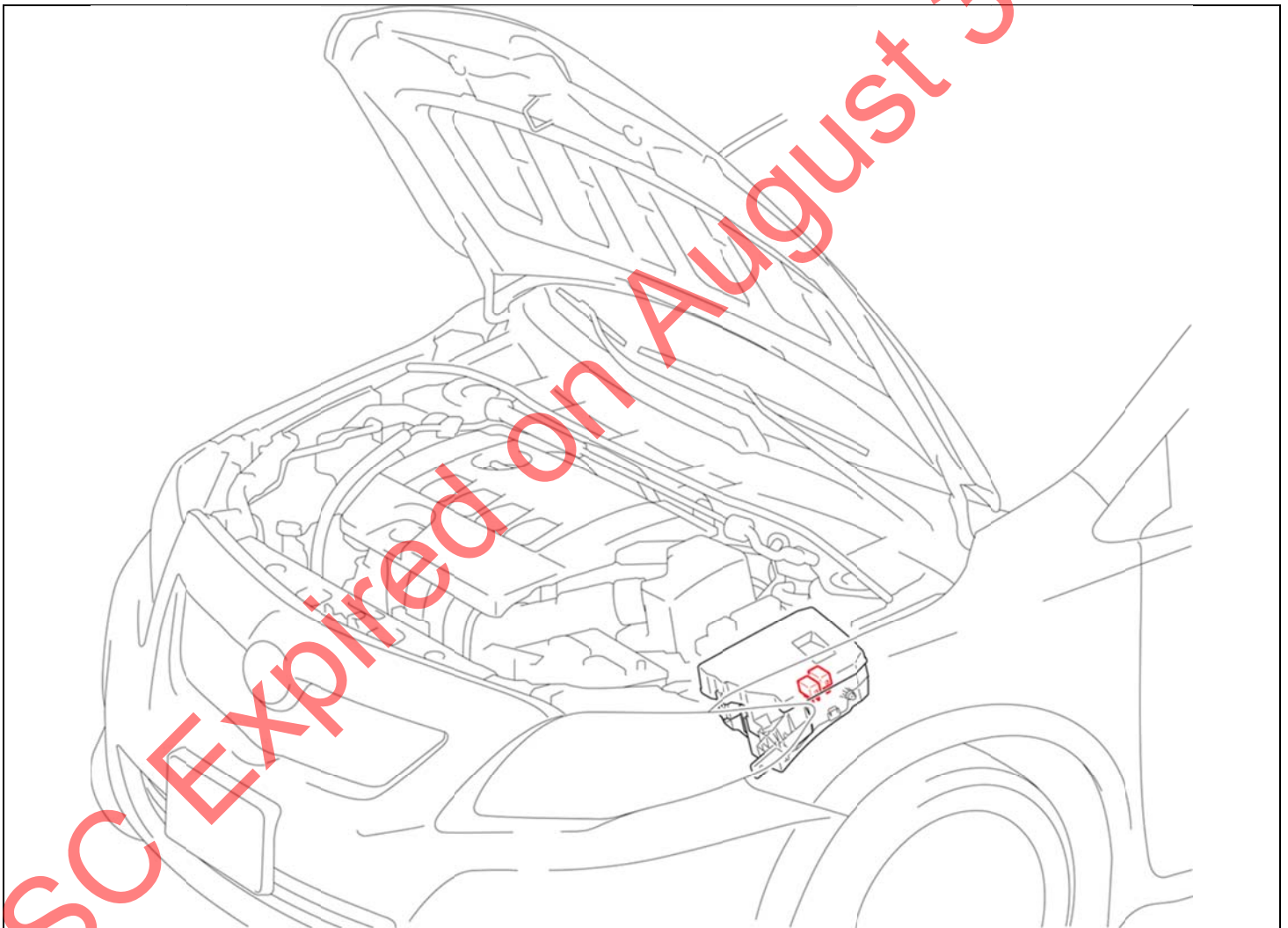
Part Number	Part Description	Quantity
04002 – 44102	Relay Kit *	1
*The kit above includes the following parts:		
<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>
90080 – 87026	PTC Heater Relay	2

#### B. TOOLS & EQUIPMENT

- Techstream
- DVOM

### IV. BACKGROUND

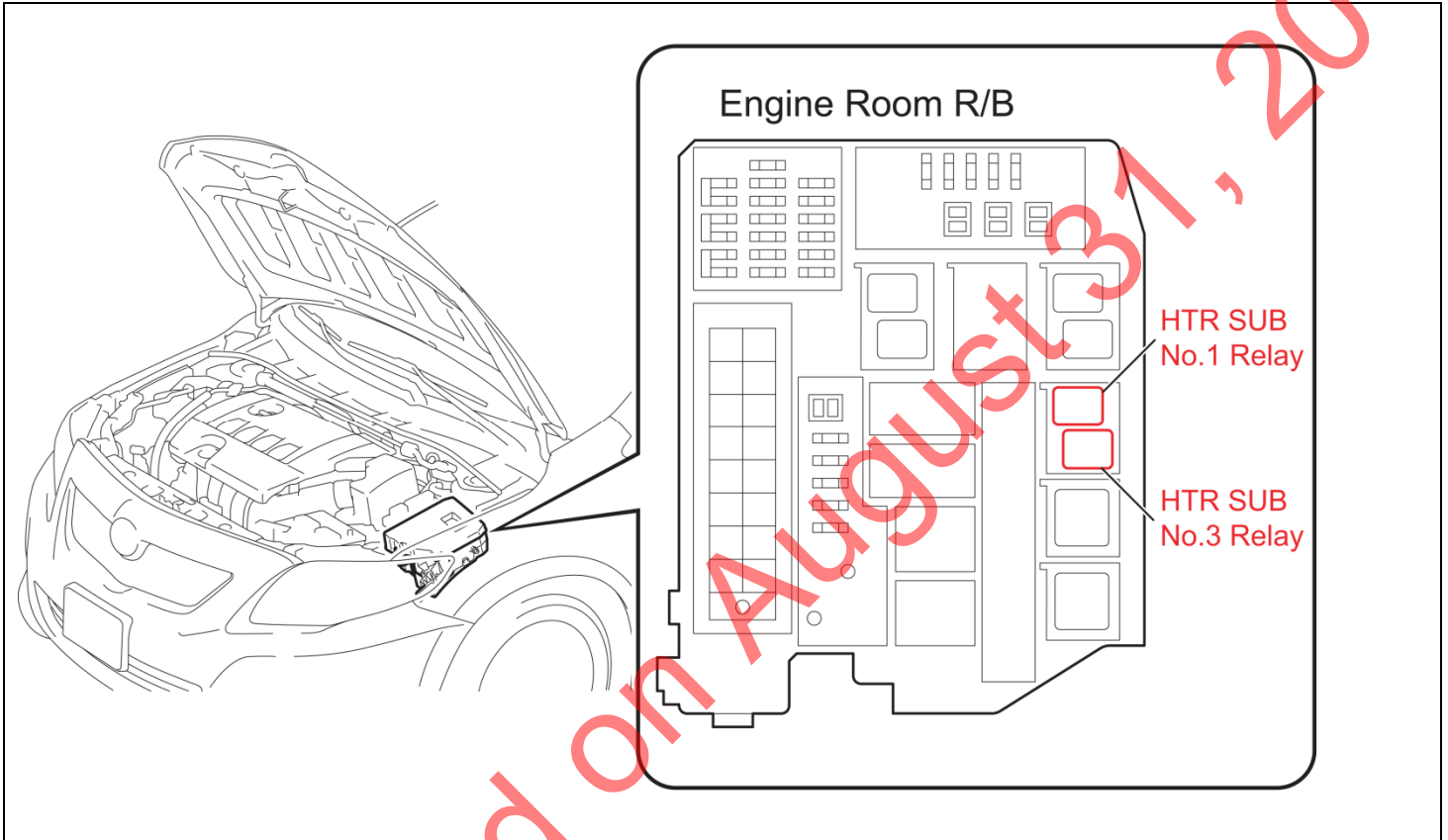
In certain 2011 and 2012 Model Year Toyota Corolla vehicles manufactured at Toyota Motor Manufacturing, Mississippi, Inc. (TMMMS), the Positive Temperature Coefficient (PTC) Heater relays were not installed.



## V. INSTALL THE PTC HEATER RELAYS

- a) Turn the ignition switch to OFF.
- b) Open the cover of the engine room relay / junction block.
- c) Install Both **NEW** PTC Heater Relays into the empty slots titled HTR SUB No. 1 and HTR SUB No. 3 in the engine room relay / junction block.
- d) Close the cover of the engine room relay / junction block.

**NOTE: The two relays are interchangeable.**



## VI. CHECK PTC HEATER RELAY OPERATION

**NOTE: When inspecting the PTC heater, be sure to turn OFF other electrical devices.**

- a) Connect the Techstream to the DLC3.
- b) Turn the ignition switch to ON.
- c) Turn the Techstream ON.
- d) Enter the following menus: Body Electrical / Air Conditioner / Active Test / Heater Active Level.
- e) Remove the No.2 instrument panel under cover sub-assembly which is located beneath the glove box.
- f) Connect negative lead of DVOM to body ground, and positive lead to corresponding terminal of A14 connector being tested (see table below).
- g) Change the Heater Active test Level to 0, 1, and 2 and measure the voltage according to the following table.

**NOTE: If any measured voltage deviates from the standard, please contact regional representative for further direction. Refer to the repair manual found on TIS to troubleshoot the condition.**

[Manual A/C Automatic A/C](#)

Heater Active Level	Terminal to Be Checked A14-1 – Body ground	Terminal to Be Checked A14-3 – Body ground
0	Below 1 V	Below 1 V
1	11 to 14 V	Below 1 V
2	11 to 14 V	11 to 14 V

The screenshot shows the 'Active Test Selection (S307-01)' window. The 'Heater Active Level' test is selected. The description states: 'This test activates the Heater. Heater Active level can be found on the Data List.' The available commands are '0:OFF - 3:Max'. The execute condition is 'Operate with IG ON.' The diagram shows a multimeter connected to terminals 1 and 3 of the A14 connector.

h) Install the No.2 instrument panel under cove sub-assembly.

**◀ VERIFY REPAIR QUALITY ▶**

- Verify that the 2 PTC relays are installed correctly.
- Check PTC Heater system for proper operation.

If you have any questions regarding this campaign, please contact your regional representative.

**VII. APPENDIX**

**A. CAMPAIGN DESIGNATION DECODER**

