

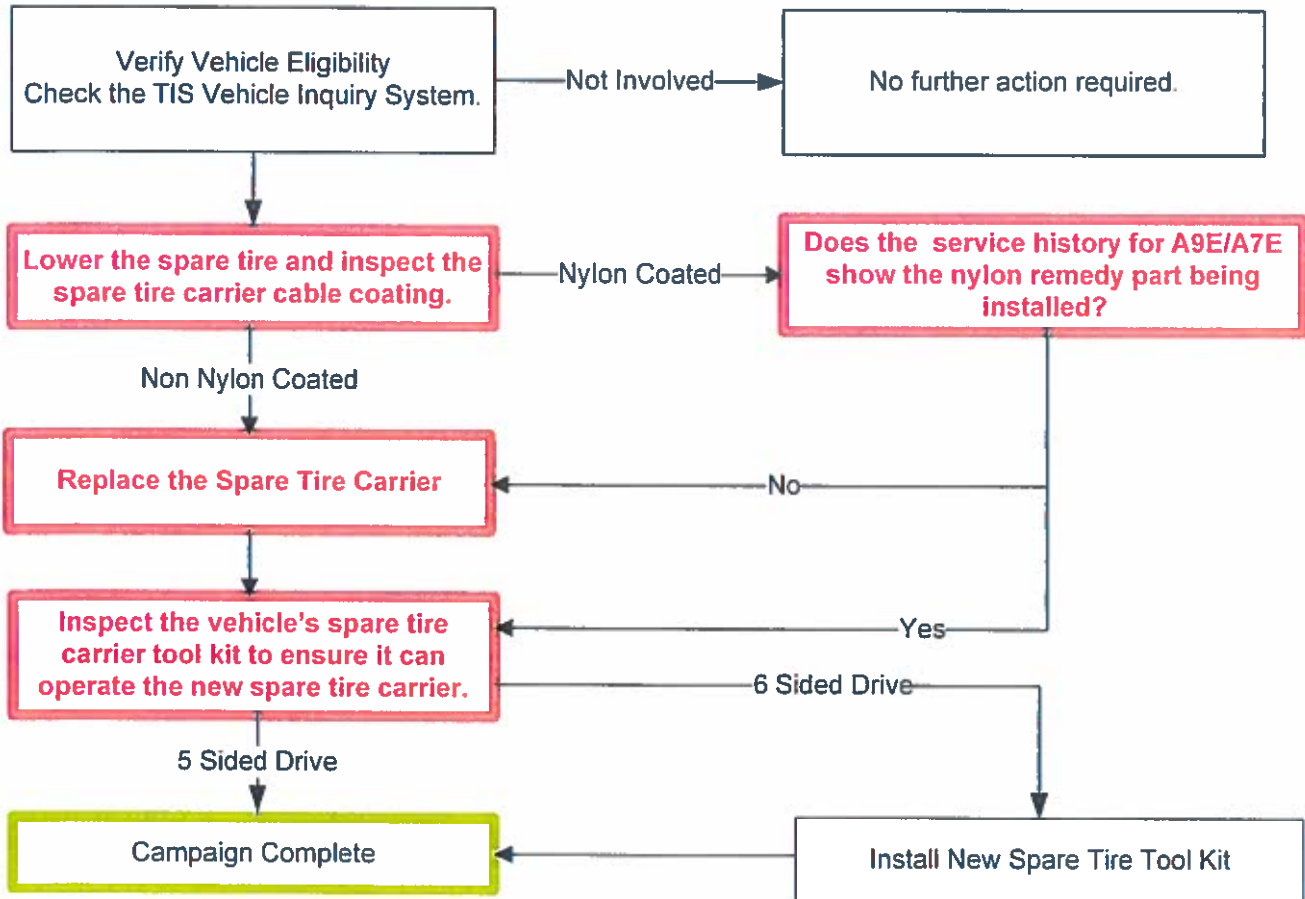
**TECHNICAL INSTRUCTIONS**  
**FOR**  
**SPECIAL SERVICE CAMPAIGN ESS**  
**CURRENTLY REGISTERED OUTSIDE OF THE 20 COLD CLIMATE STATES**  
**SPARE TIRE CARRIER CABLE REPLACEMENT**  
**2004 – 2011 MY SIENNA (2WD) VEHICLES EQUIPPED WITH A SPARE TIRE**

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently hold at least one of the following certification levels:

- Toyota Certified (any classification)
- Toyota Expert (any classifications)
- Master Technician
- Master Diagnostic Technicians

Always check which technicians can perform the recall remedy by logging on to <https://www.uotdealerreports.com>. It is the dealership's responsibility to select technicians with the above certification level or greater to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

## I. OPERATION FLOW CHART



## II. IDENTIFICATION OF AFFECTED VEHICLES

### A. AFFECTED VIN RANGE

- Check the TIS Vehicle Inquiry system to confirm the VIN is involved in this Safety Recall. This will verify the vehicle is affected and 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

All vehicles will require these parts.

Part Number	Part Description (Kit Contents)	Quantity
04005-31108	Spare Tire Carrier	1
04005-30108	Spare Tire Carrier Hardware Kit	1
90080-17258	Nut	6
90467-06197	Clip	1

Some vehicles will require the following kit because the new spare tire carrier contains a 5 point drive nut instead of a 6 point drive nut to raise and lower the spare tire. Please inspect the vehicles spare tire carrier tool kit to determine if the new kit is required and to ensure the customer will be able to raise and lower the spare tire after the campaign repair.

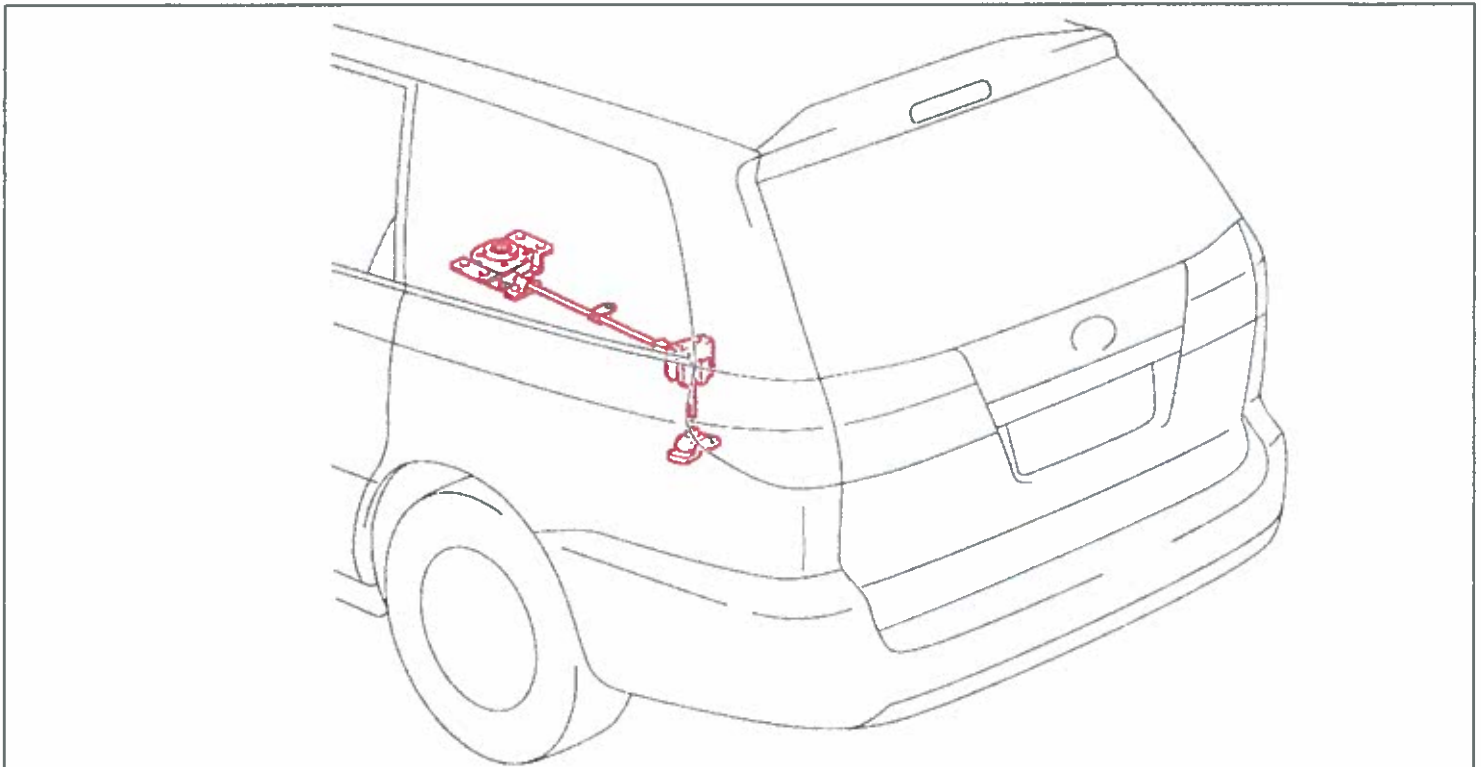
Part Number	Part Description (Kit Contents)	Quantity
04004-66108	Spare Tire Carrier Kit A	1
51942-28010	Spare Wheel Carrier Bolt Handle	1
51939-45010	Spare Wheel Carrier Lock Cover	1
74544-06120	Tire Carrier Notice Label	1

## B. TOOLS, EQUIPMENT

- Standard Hand Tools
- Torque Wrench
- Wheel Nut wrench
- Pentagon spare tire carrier socket (vehicle spare tire tool set)

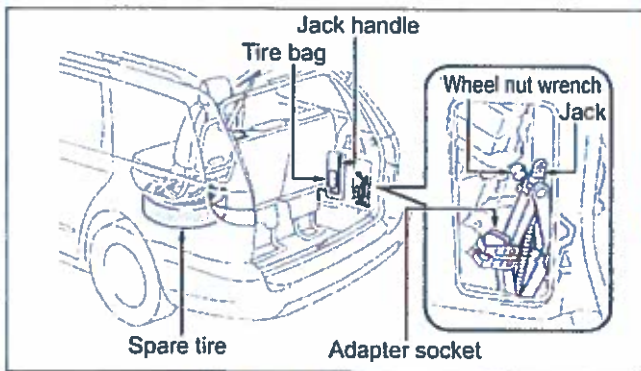
## IV. BACKGROUND

Toyota has received reports indicating that some vehicles may experience spare tire carrier or carrier cable corrosion even after being inspected and/or repaired as part of a previous Special Service Campaign. During normal usage, water splashing rearward can reach the spare tire carrier due to variation in the placement of the foam splash guard or loss of the splash guard. If the splashed water contains high concentrations of road salt, corrosion of the spare tire carrier and carrier cable may result. In limited instances, the spare tire may become separated from the spare tire carrier and create a road hazard that could cause a vehicle crash.



## V. WORK PROCEDURE

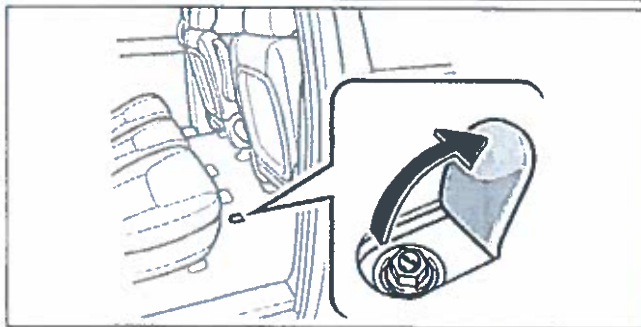
### A. LOWER AND REMOVE THE SPARE TIRE



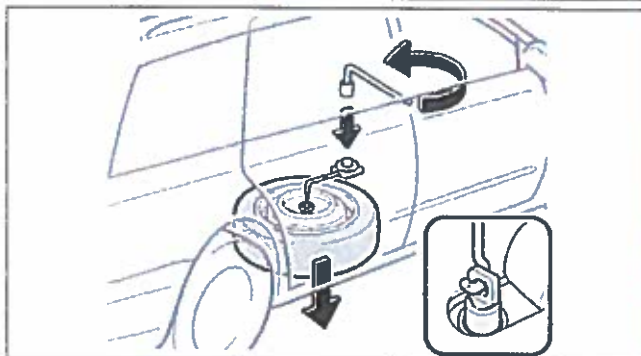
#### 1. LOCATE THE WHEEL NUT WRENCH AND JACK HANDLE

- a) When accessing the spare tire carrier tools place 1 tire bag in the tire bag slot.

**Note:** Ensure the tire bag is placed in the slot so the customer has a spare tire bag in the case of a flat.



#### 2. ACCESS THE SPARE TIRE CARRIER



#### 3. LOWER AND REMOVE THE SPARE TIRE

- a) Lower the spare tire using the spare tire carrier wrench and remove the spare tire.



**DO NOT** use an impact or power tool to lower the spare tire, damage may occur to the carrier.

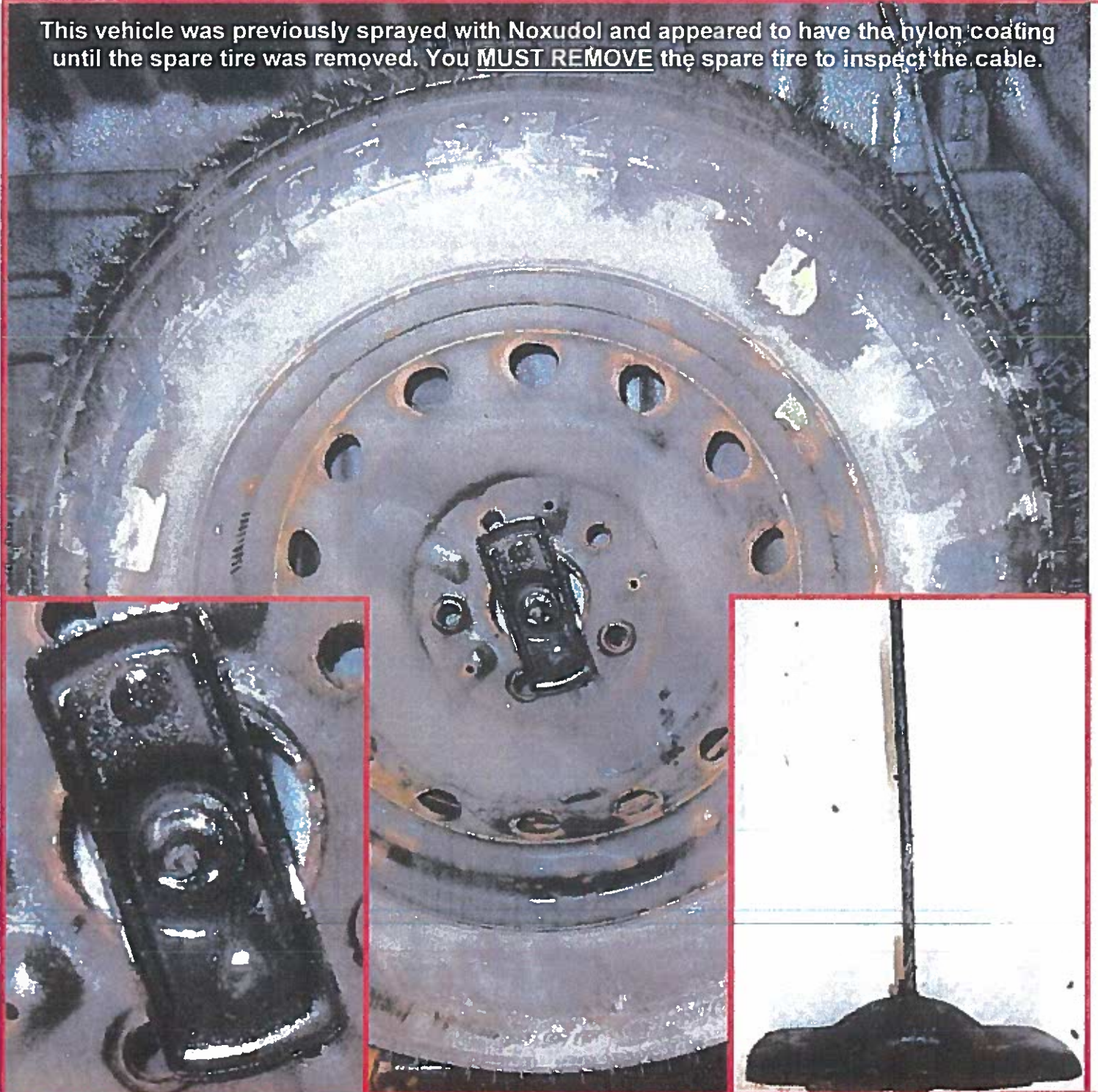
## B. INSPECTION OF SPARE TIRE CARRIER CABLE

STOP

- The spare tire **MUST** be removed to perform the spare tire cable inspection.
- **DO NOT** inspect the cable type without removing the spare tire, otherwise noxudol that was previously applied on the cable could be mistaken for the nylon coating.

STOP

This vehicle was previously sprayed with Noxudol and appeared to have the nylon coating until the spare tire was removed. You **MUST REMOVE** the spare tire to inspect the cable.



STOP

- If you are unable to determine if the cable is nylon coated or was previously applied with Noxudol, replace the spare tire carrier.
- A low percentage of spare tire carriers were replaced under Safety Recall A9E and SSC A7E, it is anticipated that the majority of spare tires carriers will be replaced.

STOP

# 1. CONFIRM THE SPARE TIRE CARRIER CABLE TYPE AND CONDITION

- a) Clean the spare tire cable of dirt and debris.
- b) Inspect the spare tire carrier to determine what kind of spare tire cable is on the vehicle. Use the table below to determine your next step based on the inspection.

## Need to Replace the Spare Tire Carrier

- Raw Steel Cable
- Raw Steel with Corrosion
- Raw Steel with Noxudol
- Black Resin Coated with Exposed Ferrule

All of the above cable type and cable conditions must have the spare tire carrier replaced.

**Go to section V.E.1 to inspect the spare tire carrier tool design.**

## Confirm Spare Tire Carrier Part Number Installed by the Vehicles Service History

- Nylon Coated

**Go to section V. D.1**

Raw Steel Cable



Raw Steel with Corrosion



Raw Steel with Noxudol

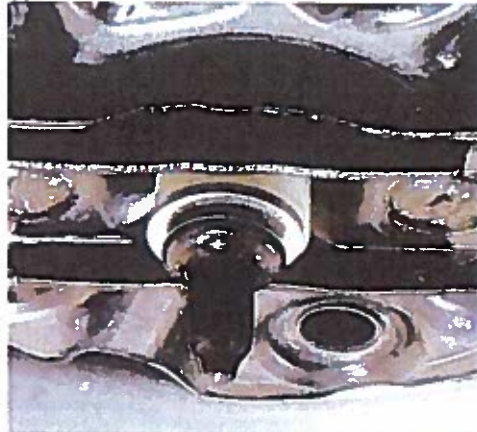


Black Resin Coated with Exposed Ferrule



- Replacement of the spare tire carrier is required. Go to Section V.E.1. to inspect the spare tire carrier tool design.
- If you are unsure of what type of spare tire cable your vehicle is equipped with replace the carrier.

Nylon Coated with Coated Ferrule

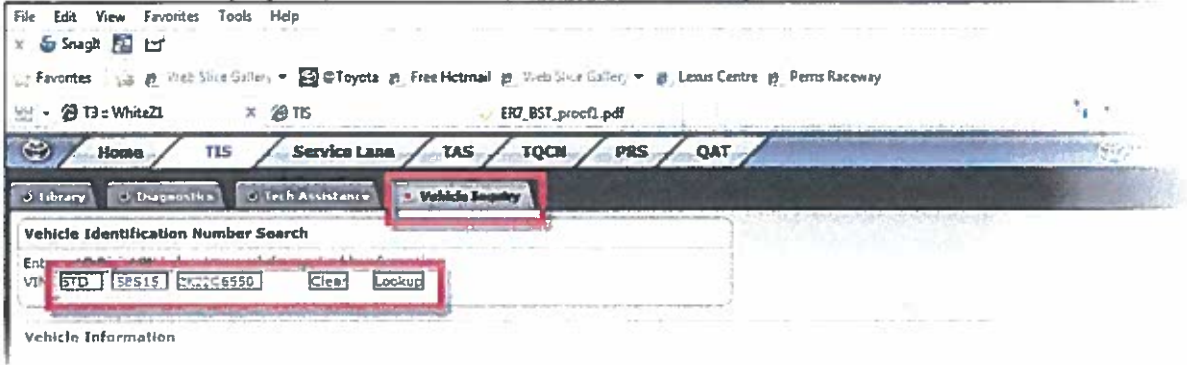


If the vehicle appears to have a nylon coated spare tire carrier cable that is in good condition, proceed to section V.D.1 to validate the spare tire carrier part number.

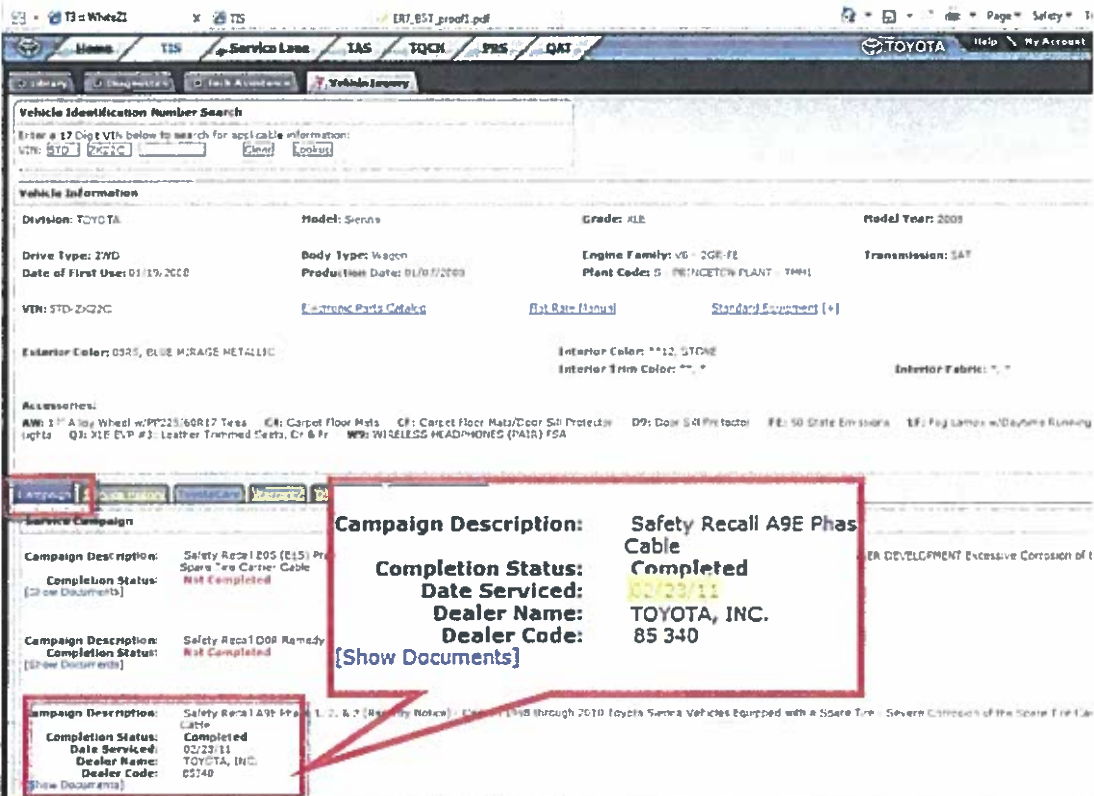
**C. VERIFY SPARE TIRE CARRIER TYPE**

**1. RUN VIN INQUIRY ON VEHICLE**

a) On TIS run a VIN inquiry to retrieve the vehicles service history.



b) Confirm the A9E/A7E completion date under the campaign tab.



- c) Click on the service history tab and locate the warranty claim under service history.
- d) Expand the claim by pressing the plus sign on the right hand side of the claim.
- e) Does the service history show part number 5190008035 or 5190008036 being installed?

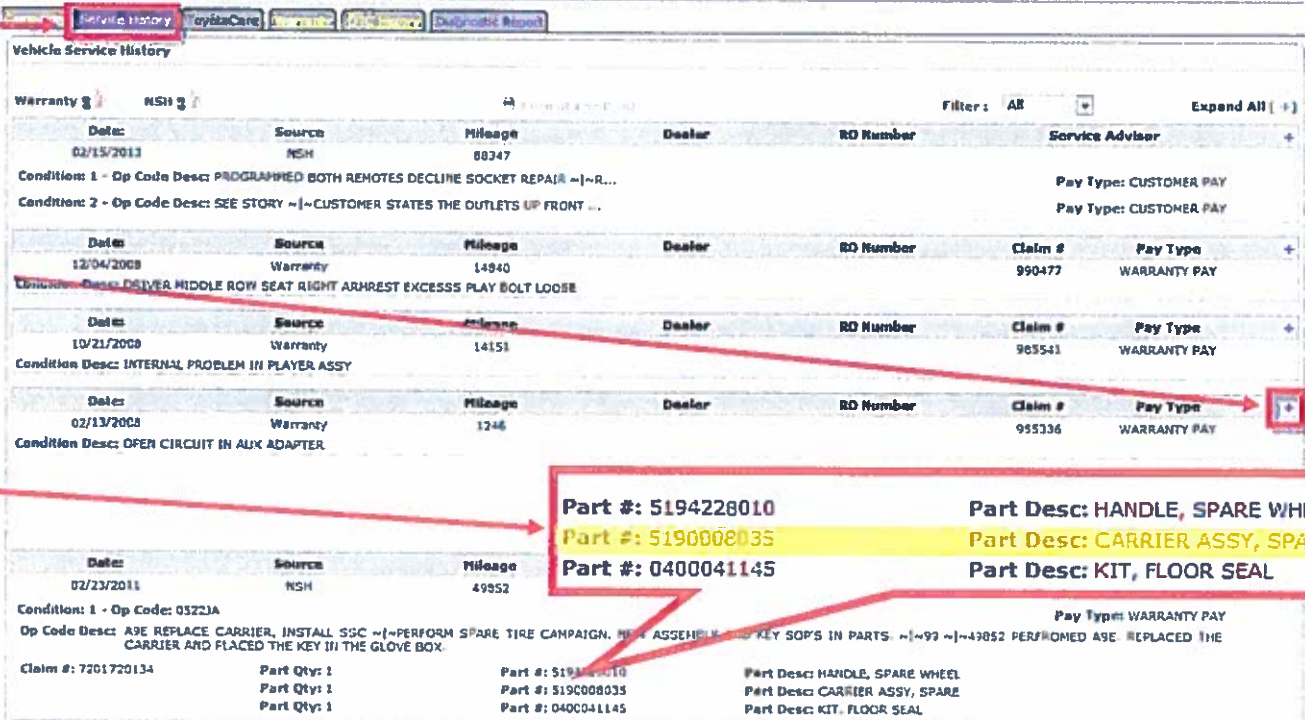
**No: Replace Spare Tire; go to section to section V.F.1 for spare tire carrier replacement.**

**Yes: Campaign Complete; Reinstall Spare Tire on Spare Tire Carrier**




**Part Number 5190008035 or 5190008036 must be on the claim, if it is not relocate the spare tire.**



**C)** 

Date	Source	Mileage	Dealer	RD Number	Service Advisor	Claim #	Pay Type
02/15/2011	NSH	88347					
Condition: 1 - Op Code Desc: PROGRAMMED BOTH REMOTES DECLINE SOCKET REPAIR ~[-R... Condition: 2 - Op Code Desc: SEE STORY ~[-CUSTOMER STATES THE OUTLETS UP FRONT ...							
12/04/2008	Warranty	14940				990477	WARRANTY PAY
Condition Desc: DELIVER MIDDLE ROW SEAT RIGHT ARMREST EXCESS PLAY BOLT LOOSE							
10/21/2008	Warranty	14151				965541	WARRANTY PAY
Condition Desc: INTERNAL PROBLEM III PLAYER ASSY							
02/13/2008	Warranty	1246				955336	WARRANTY PAY
Condition Desc: OPER CIRCUIT IN AUX ADAPTER							
02/23/2011	NSH	49852					
Condition: 1 - Op Code: 0522JA Op Code Desc: ASE REPLACE CARRIER, INSTALL SSC ~[-PERFORM SPARE TIRE CAMPAIGN. RE-ASSEMBLE THE KEY SOP'S IN PARTS. ~[-93 ~[-43052 PERFORMED ASE. REPLACED THE CARRIER AND PLACED THE KEY III THE GLOVE BOX.							
Claim #: 7201720134	Part Qty: 1	Part #: 5194228010	Part Desc: HANDLE, SPARE WHEEL				
	Part Qty: 1	Part #: 5190008035	Part Desc: CARRIER ASSY, SPARE				
	Part Qty: 1	Part #: 0400041145	Part Desc: KIT, FLOOR SEAL				

**E)** 

Part #: 5194228010	Part Desc: HANDLE, SPARE WHEEL
Part #: 5190008035	Part Desc: CARRIER ASSY, SPARE
Part #: 0400041145	Part Desc: KIT, FLOOR SEAL

#### D. INSPECT THE SPARE TIRE CARRIER TOOL KIT DESIGN



#### 1. INSPECT THE SHAPE OF THE SPARE TIRE CARRIER DRIVE TOOL KIT.

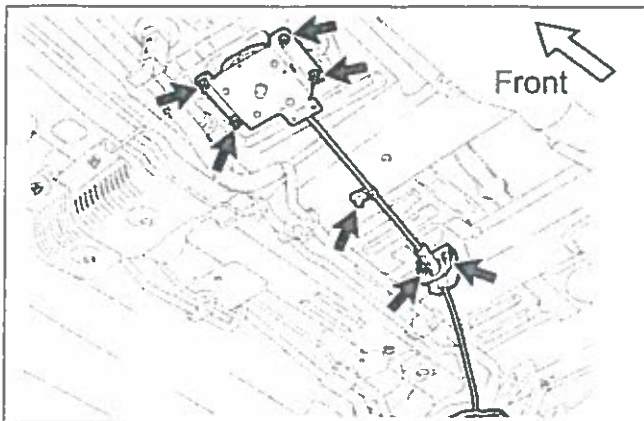
- a) Using the table below determine if the vehicle will require a new Spare Tool Kit "A"

Drive Design	Tool Kit Requirement
Pentagon (5-sided) 	Current Tool Kit is Okay
Hexagon (6-sided) 	<b>NEW TOOL KIT REQUIRED</b>

**Note:** The NEW spare tire carrier will come with a pentagon drive nut, so ensure the tool kit in the vehicle will be able to operate the new spare tire carrier.



## E. SPARE TIRE CARRIER REPLACEMENT

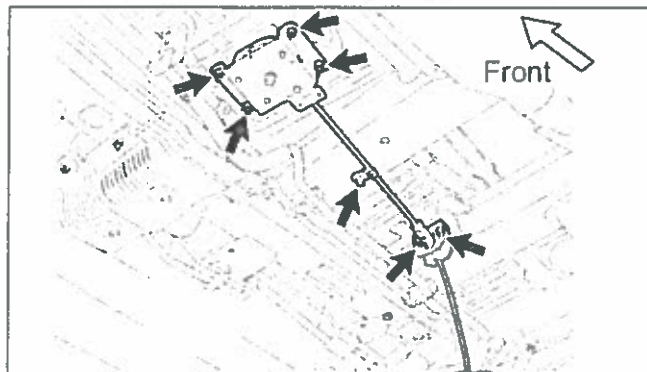


### 1. REMOVE THE SPARE TIRE CARRIER ASSEMBLY

- Raise the vehicle on a hoist to access the spare tire carrier.
- Remove the clip located in the center of the carrier rod.
- Remove the 6 nuts securing the carrier.



When removing the nuts use caution because the studs and nuts could be rusted. If damage occurs to the studs parts of the vehicle floor pan may need to be replaced.



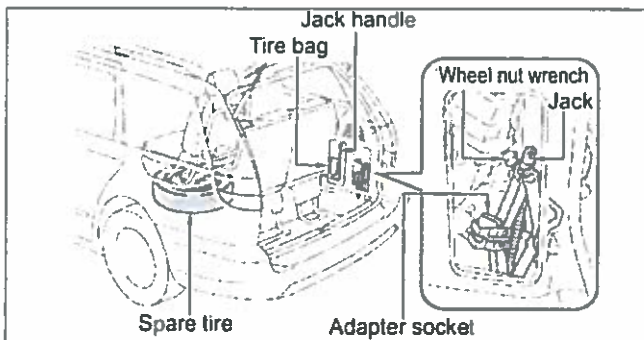
### 2. INSTALL THE NEW SPARE TIRE CARRIER

- Install the new spare tire carrier with the 6 **NEW** nuts and **NEW** clip.

**Torque Specification:**  
48 in-lbf (5.4 Nm, 55kgf-cm)

### 3. REINSTALL THE SPARE TIRE BELOW THE VEHICLE

## F. INSTALL NEW TIRE CARRIER TOOL KIT A (ONLY IF REQUIRED)



### 1. INSTALL THE NEW SPARE TIRE CARRIER TOOL KIT

### 2. INSTALL THE NEW TIRE CARRIER NOTICE LABEL

- Install the new label over the existing label located on the RH "B" pillar.



## ◀ VERIFY REPAIR QUALITY ▶

- Confirm that the spare tire carrier was installed properly
- Confirm that the vehicle is equipped with the proper tools to be operated by the customer
- Confirm that the spare tire is stowed correctly and pulled tight against the vehicle under body
- Confirm that the seats and interior carpet is clean and free of dirt and grease

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

