

**Part Number: PTR02-12080**

**Kit Contents:**

Item #	Quantity Req'd.	Description
1	1	Strut Brace
2	1	Instructions
3	1	Hardware Bag

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	6	8mm washers (JPP models only) (not required for US built models)
2		
3		

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description
1		
2		

**Conflicts**

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**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
Fender Covers	
<b>Special Tools</b>	<b>Notes</b>
<b>Installation Tools</b>	<b>Notes</b>
Ratchet	3/8"
3/8 Sockets	10mm, 14mm
3/8 Extensions	
Screw Driver	Small flat blade
<b>Special Chemicals</b>	<b>Notes</b>

**General Applicability**

All Models
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**Recommended Sequence of Application**


Item #	Accessory
1	
2	


\* Mandatory


**Vehicle Service Parts** (may be required for reassembly)


Item #	Quantity Req'd.	Description
1		
2		
3		


**Legend**


 **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

 **OPERATOR SAFETY:** Use caution to avoid risk of injury.

 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

 **SAFETY TORQUE:** This mark indicates that torque is related to safety.

## Procedure

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

## 1. Remove Cowl and Wiper Assemblies

(a) Remove front wiper arm head caps.

(b) Remove front wiper arms and blade assemblies.

**HINT:** Press the sprung joint down with your palm to loosen the splined mounting point.

(c) Remove hood to cowl top seal.

(d) Remove center No.1 cowl top ventilator louver (plastic cowl cover). Do not force clips.

(e) Remove cowl top ventilator louver LH.

(f) Remove windshield wiper motor and link assembly.

(1) Disconnect W/H from cowl pan.

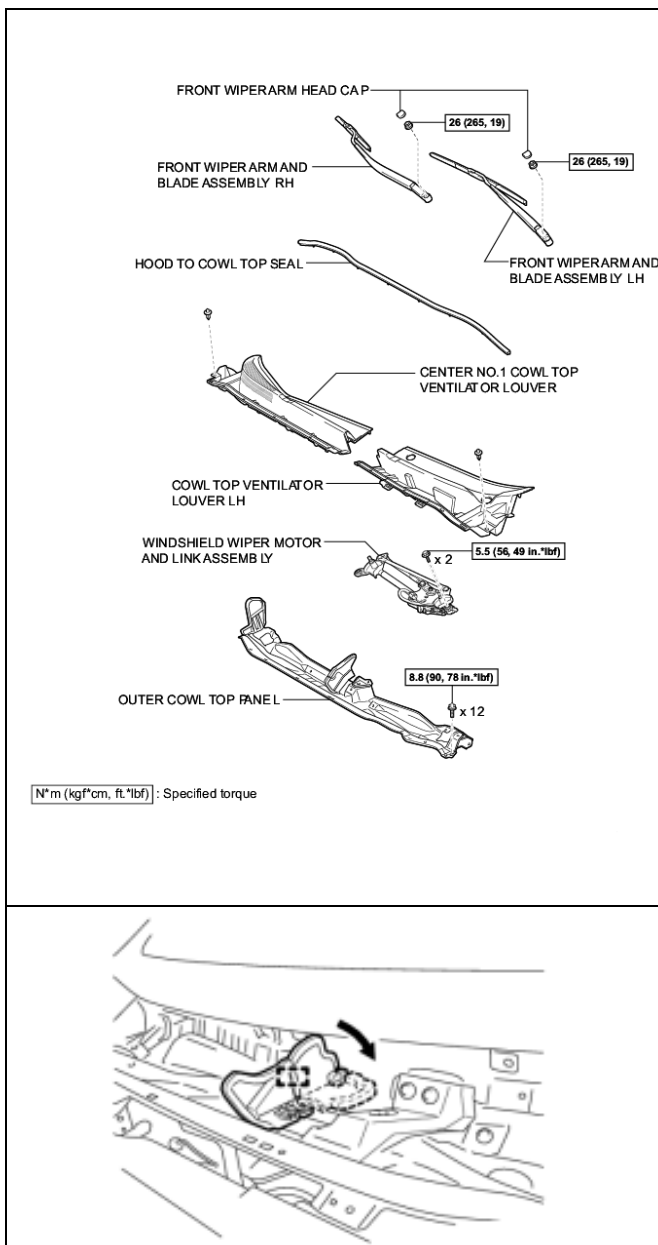
(2) Disconnect W/H connector from wiper motor.

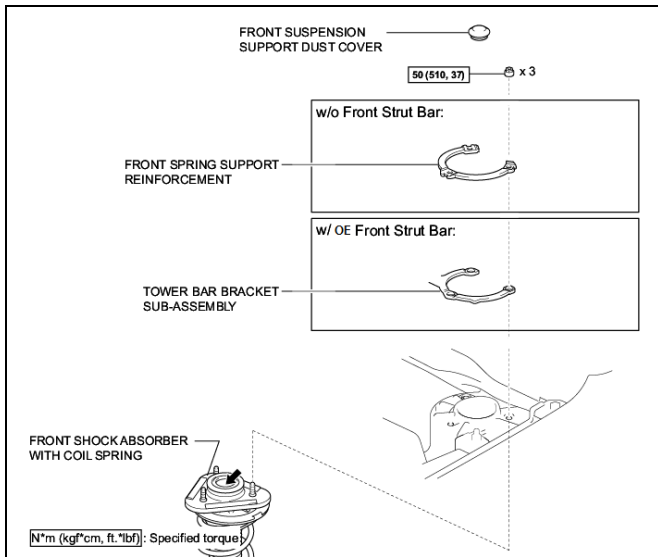
**NOTE:** Take great care to not touch the lower edge of the windshield with the wiper motor.

(g) Remove outer cowl top panel.

(1) Disconnect clips and fold the splash shields for clearance.

**NOTE:** Take great care to not touch the lower edge of the windshield with your tools.





- (h) Remove 6 nuts found on top of the struts.
- (1) Remove front spring support reinforcement and discard (if equipped).
  - (2) Remove front OE strut bar and discard (if equipped).

## 2. Install TRD Strut Brace

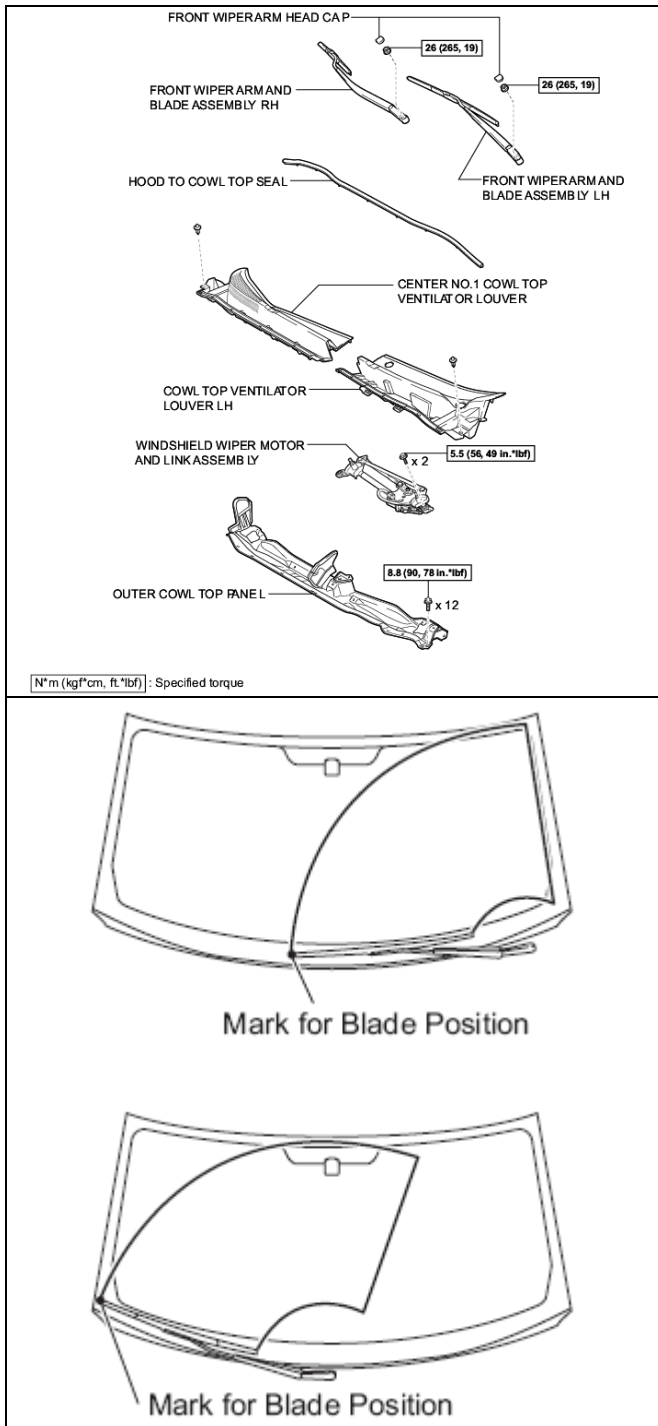
- (a) Place TRD strut brace over strut mounting studs.
  - (1) Confirm the strut brace is behind the wiper motor harness (as shown).
- (b) Fasten the 6 strut mounting nuts.

**Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)**

**NOTE:** For Corolla vehicles produced in Japan use supplied washers on top of the TRD strut brace and under the strut nuts.

Corolla vehicles built in Japan have a VIN that begins with the letter “J”. Corollas built in North America have a VIN that begins with a 1 or 2.





### 3. Install Cowl and Wiper Assemblies

(a) Install outer cowl top panel, 12 bolts.

**Torque: 8.8 N·m (90 kgf·cm, 78 in.-lbf)**

(b) Fold splash shields back into their original position.

(c) Install wiper motor and link assembly.

**Torque: 5.5 N·m (56 kgf·cm, 49 in.-lbf)**

**NOTE:** Take great care not to hit the glass with the wiper motor assembly.

(d) Install plastic cowl covers, LH then RH.

(e) Install the hood to cowl top seal.

(f) Install wiper arms.

(1) Locate clear dot in black paint found at the base of the windshield as shown.

**HINT:** You will need a good source of light to see this dot, i.e. flashlight or direct sun light.

(2) Hold wiper base onto the wiper motor stud while tightening fasteners.

**Torque: 26 N·m (265 kgf·cm, 19 ft·lbf)**

(g) Install wiper arm head caps.

# TOYOTA COROLLA/MATRIX 2009-

## TRD STRUT BRACE

Checklist. These points MUST be checked to ensure a quality installation.

### CHECK FOR:

#### Accessory Function Checks

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### LOOK FOR:

#### Vehicle Function Checks

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Confirm windshield wipers operate properly.

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Function check. Confirm wipers do not contact windshield framing.