

## TECHINICAL BULLETIN

**In order to keep you better informed as to product changes, possible problem areas, and areas of general information, Eldorado National Inc (ENK) will be issuing as the need arises, a TECHNICAL BULLETIN.**

*Read and understand the following instructions before starting the repair.*

**CONCERN:**

To remedy a safety defect found in the Toyota Amerivans rear shock location.

**SOLUTION:**

Relocate both rear shock absorbers to the original OEM axle location, and add a spacer to the upper shock mounting locations. This will increase the clearance between the left rear shock and fuel neck during extreme compression of the shock absorber and suspension.

**INSPECTION:**

Inspect shocks and fuel neck for any major damage that would prevent its proper function.

**REPAIR GUIDE:**

Access the top mounting hardware for both shocks by opening the rear hatch. Locate covers shown in picture 1 and 2; gently use a screwdriver to remove the covers.

Picture 1 (pass side)



**DATE: 7-3-13**

**Units affected:  
2011 through 2013  
Toyota Amerivans  
built Prior to  
June 25, 2013**

**Parts required from  
ENK for this repair.**

**0033881-023, Shock Spacer**

**0033811-022, Shock Spacer**

**Qty 2 0000788, Bolt Hex 1/2-  
13 x 1 1/2 GR 8**

**Qty 2 0000482, Lock  
Washer 1/2**

**Qty 2 0028794, Flat  
Washer 5/8**

## TECHINICAL BULLETIN

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Picture 2 (driver side)



The top shock mount is shown in picture 3; please keep all hardware to reinstall shock.

Picture 3



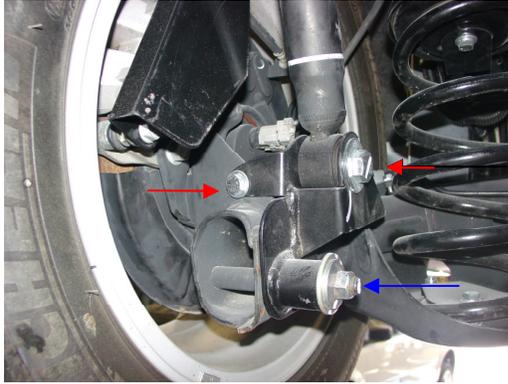
### **DRIVER SHOCK RELOCATION:**

Remove the driver side rear wheel well liner, and driver side rear shock. Next remove of the ENK driver shock relocation bracket part # 0033881-003. The arrows in pictures 3 and 4 indicate the mounting hardware that needs removed in order to accomplish this step. *The blue arrow indicates an OEM nut will be reused, to reinstall the shock back to that location.*



## TECHINICAL BULLETIN

Picture 4



Picture 5



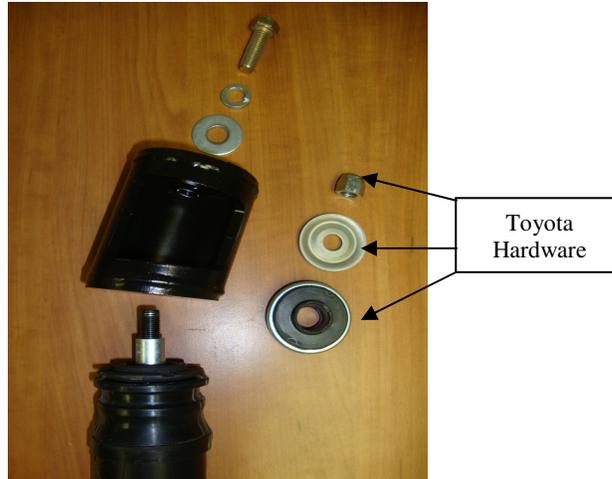
With driver side relocation bracket removed, the new shock spacer can now be installed to the top of the shock. The spacer part number is 0033811-022, compare spacer to the attached drawing, and confirm the correct part is installed. Please note the spacers for the shocks are driver and passenger side specific.

## TECHINICAL BULLETIN

---

The spacer hardware is installed in the order shown in picture 6.

Picture 6



With the shock spacer installed, mount the top of the shock as shown in picture 6. *It is important the spacer is rotated with the access hole for installing the shock to the spacer facing out.* To complete the installation of the driver shock, attach the shock back to the OEM location on axle as picture 7 indicates.

*The torque specification for this hardware is at the end of this document.*

Picture 7



## **TECHINICAL BULLETIN**

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Picture 8



### **PASSENGER SIDE SHOCK RELOCATION:**

Remove the passenger side rear wheel well liner and shock.

The top shock mount is shown in picture 9; please keep all hardware to reinstall shock.

Picture 9



The following steps involve modifying the passenger side shock relocation bracket / kneel chain mount.

*(This modification requires a sawzall with 12 inch Blade)*

First, *remove and keep* the OEM nut indicted by they blue arrow in picture 10. The red arrows in picture 10 indicate hardware that needs removed and will not be reused.



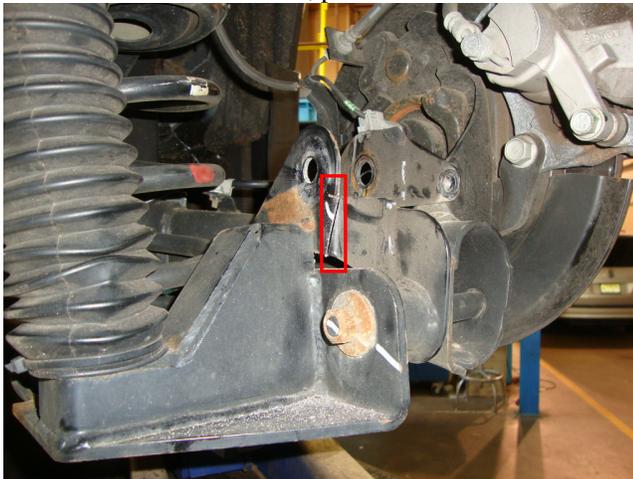
## TECHINICAL BULLETIN

*Please review* pictures 10 to 15; these pictures illustrate step by step where to make each cut, and conclude by showing how the bracket will look once properly modified.

Picture 10



First Cut, picture 11



## TECHINICAL BULLETIN

Second Cut, picture 12



Fourth and Fifth cuts, picture 13



## TECHINICAL BULLETIN

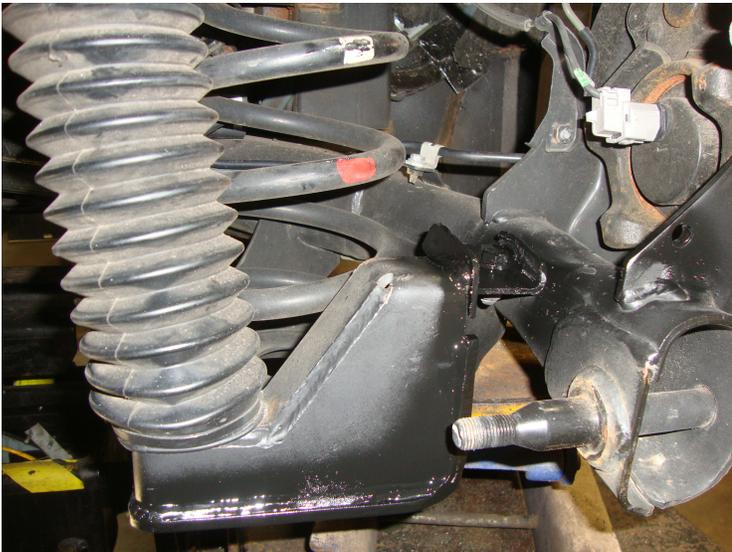
Sixth and seventh Cuts, Picture 14



Now remove the part of the ENK bracket that was mounted using the OEM lower shock mount bolt.

Please clean all cut edges and protect all cut areas with primer and black paint.

Picture 15

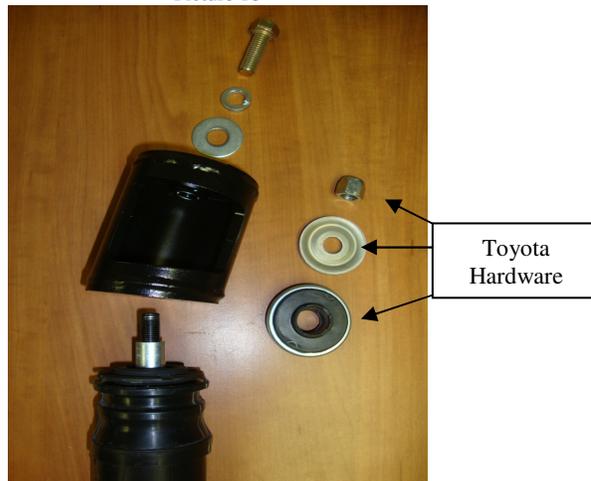


## TECHINICAL BULLETIN

With the passenger side relocation bracket modification complete, the new shock spacer can now be installed to the top of the shock. The spacer is part number 0033811-023. Please compare the spacer to the attached drawing to confirm the correct part is installed. *Please note* the shock spacers are driver and passenger side specific.

The hardware for the shock spacer is installed in the order shown in picture 16.

Picture 16



With the shock spacer installed, mount the shock, first to the body, then to axle. *It is important the spacer is rotated with the access hole for installing the spacer to the shock facing out.*

*The torque specification for this hardware is at the end of this document.*

Picture 17



## **TECHINICAL BULLETIN**

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### **Torque specification:**

*The grade 8 bolts that hold the ENK spacers 0033811-002 and 0033811-023 to the body need torque to 110 FT /lbs, with blue lock tight added.*

*Both upper shock connecting points to the ENK spacers need torque to 25 FT/lbs.*

*Both lower shock mounts to the axle beam need torque to 87 FT / lbs 0033881-003*

### **TIME**

Eldorado National will cover 2 hours of labor at the established ENK dealer warranty labor rate.

### **CONTACT**

Please call Eldorado National Amerivan Customer Service with any question 800-955-9086 Ext 427

  
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**National - Kansas**  
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