

ATTENTION TO ALL ARB STOCKISTS



## TOYOTA LANDCRUISER 200 SERIES KDSS SYSTEM TECH NOTES

06/12/2007

This press release applies only to Toyota Landcruiser 200 Series or Lexus LX Series vehicles which have been factory equipped with Toyota's Kinetic Dynamic Suspension System (KDSS), also referred to by Toyota as a "hydro-mechanical semi active anti roll bar".

ARB product installations currently effected:

FRONT SPRINGS  
FRONT DAMPERS/STRUTS  
REAR DIFFERENTIAL  
REAR SPRINGS

The issue involves installation difficulty resulting from:

1. Interference between the sway bar (anti roll bar) and the differential third member (drop out) which prevents the differential from being removed from the vehicle.
2. The non-leveled state which the vehicle assumes after the sway bar has been removed and then re-attached at any link(s) or mount(s) for any period of time over a few seconds.

Procedure for working around the KDSS system:

1. Suspend vehicle on 2-post type chassis hoist allowing wheels to hang.
2. Locate the KDSS valve housing.

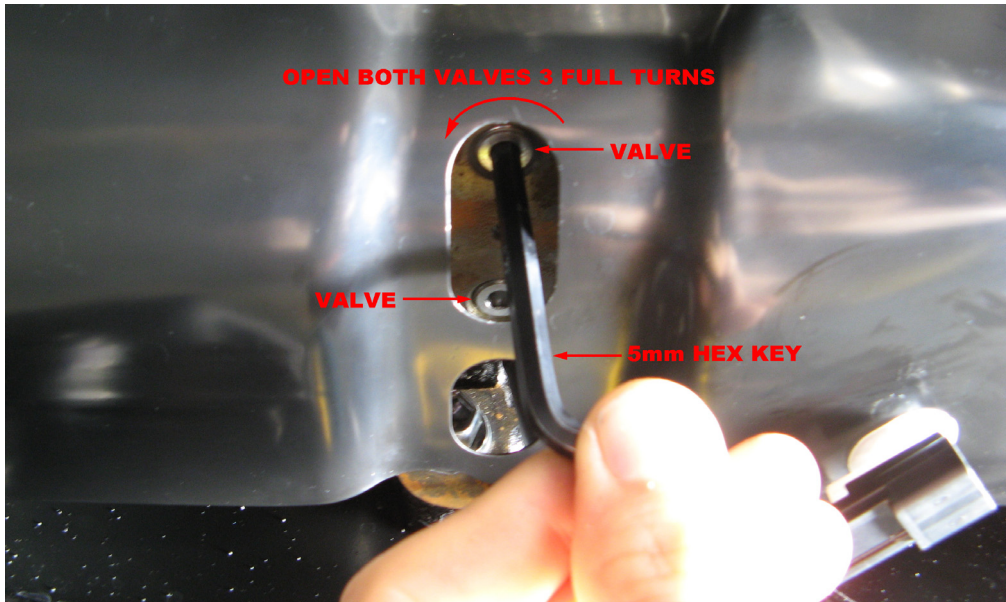
**NOTE:** The valve housing is located on the left-hand side of the vehicle, on the inside of the chassis rail, roughly half way between the front and the back of the vehicle.

3. Using a 5mm hex key, open the 2 leveling valves 3 full rotations anti-clockwise. (access is from underside of the KDSS valve housing - see picture on next page)

**NOTE:** The KDSS system is now open and the sway bar ends should be able to be freely manipulated with little effort, allowing spring / strut removal and installation.

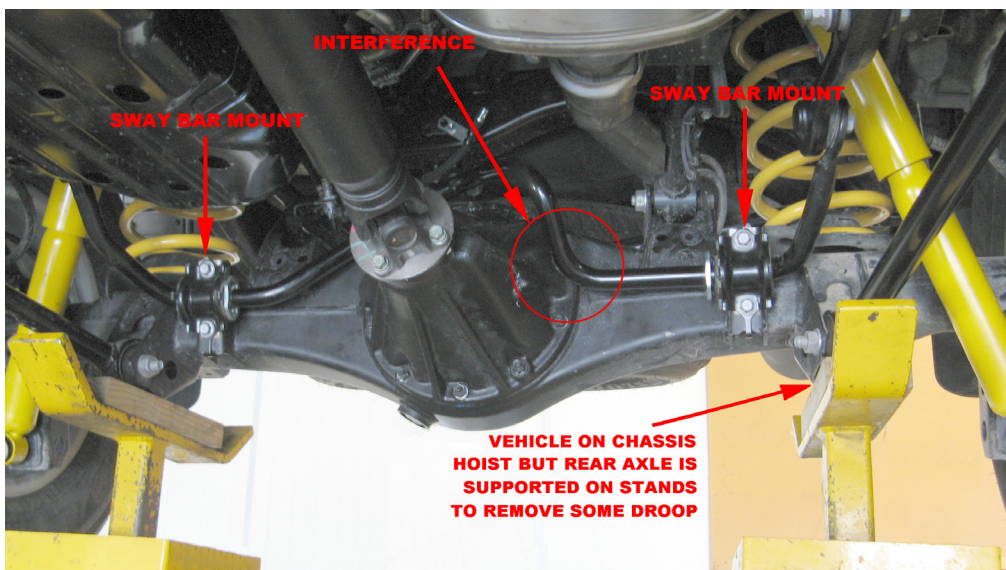
**NOTE:** **THE VEHICLE SHOULD NEVER BE DRIVEN WITH THESE VALVES OPEN AS THIS WOULD EXPOSE A SERIOUS RISK OF LOSS OF CONTROL OR ROLLOVER.**

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4. Position axle stands under the rear axle and lower the hoist until most of the vehicles droop has been removed.

**NOTE:** Detaching the rear sway bar as described here is not required for front axle installation work.



5. Detach the sway bar from its mounts on the axle.
6. Using a pry bar or lever, move the sway bar upward so that the differential third member can be effectively removed from the axle assembly.
7. After the differential has been re-installed, re-attach the sway bar mounts, remove the axle stands, and lower the vehicle onto the ground.
8. With the vehicle sitting on level ground, close both KDSS leveling valves by turning them in a clockwise direction and then tightening.

If you have any questions regarding the above, please contact Air Locker Design Engineering at:

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