



# TECHNICAL BULLETIN

No: LA204-007  
Issue: 1  
Date: 03 Oct 2006

CIRCULATE: TO

Service Mgr  
X

Warranty  
X

Workshop  
X

Body Shop  
X

Parts  
X

**SECTION:** 204-00 – SUSPENSION SYSTEM

## Dynamic Suspension Geometry Setting Mode

**AFFECTED VEHICLE RANGE:**

LR3 (LA)

VIN: All with EAS


**CONDITION SUMMARY:**

### ACTIVATING 'TIGHT TOLERANCE MODE' TO ADJUST VEHICLE GEOMETRY

**Situation:** New functionality has been added to the Integrated Diagnostic System (IDS) that allows the vehicle dynamic suspension (electronic air suspension) to be temporarily set in a geometry setting mode. The 'Tight Tolerance Mode' changes the suspension ride height tolerances to a lower/tighter range of  $\pm 5$  mm ( $\pm 0.2$  in) to allow for accurate geometry adjustment.

Variations in geometry setting results have led to the introduction of the 'Tight Tolerance Mode' to improve setting consistency.

 **NOTE:** The 'Tight Tolerance Mode' is set using IDS. The IDS unit does not need to remain connected while the geometry is being adjusted.

 **NOTE:** Activating the 'Tight Tolerance Mode' will cause the air suspension warning lamp to be illuminated and the DTC C1A00-54 to be logged. When the setting mode is de-activated using IDS the warning lamp is extinguished and the DTC is cleared automatically.

**Action:** Should the vehicle geometry settings require adjustment, refer to the Repair Procedure detailed in this bulletin to temporarily activate the 'Tight Tolerance Mode' and adjust vehicle geometry using workshop manual procedures.

**PARTS:**

No parts required.

**TOOLS:**

IDS DVD103 or later software installed.

**NOTE:** The information in Technical B Information bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers." If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether the bulletin applies to a specific vehicle.



## WARRANTY:

△ **NOTE:** Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to DDW to obtain the latest repair time.

DDW requires the use of causal part numbers.

Labor only claims must show the causal part number with a quantity of zero.

<i>Description</i>	<i>SRO</i>	<i>Time (Hours)</i>	<i>Condition Code</i>	<i>Causal Part</i>
Activate and deactivate tight tolerance mode for air suspension	60.90.18	0.20	W6	ALGN4W

*Normal warranty policy and procedures apply.*

△ **NOTE:** Labor operation 60.90.18 and associated time of 0.2 hours to activate and deactivate Tight Tolerance mode replaces the need to check or re-calibrate the air suspension system. The labor time of 1.1 hours to calibrate the air suspension system has been removed and the labor time of 0.2 hours to activate/deactivate Tight Tolerance mode has been included in the revised labor times listed in Table 1.

- Labor operation 60.90.18 should not be claimed as a separate SRO on any warranty claim where the geometry has been checked or adjusted and claimed by a Land Rover Retailer.
- Labor operation 60.90.18 should only be claimed as a separate SRO when the Retailer has used IDS to activate and deactivate Tight Tolerance mode in order to prepare the vehicle for sublet to an outside repair facility for geometry adjustments.

**Table 1**


<i>Description</i>	<i>SRO</i>	<i>New Time (Hours)</i>
Steering geometry - check & adjust (includes activate and deactivate tight tolerance mode, castor, camber, king pin inclination, toe in/toe out on turns and rear wheel alignment)	57.65.04	1.80
Steering geometry – check (includes activate and deactivate tight tolerance mode, castor, camber, king pin inclination, toe in/toe out on turns and rear wheel alignment)	57.65.02	0.90
Front wheel alignment - check & adjust (includes activate and deactivate tight tolerance mode)	57.65.01	1.10
Rear wheel alignment - check & adjust (includes activate and deactivate tight tolerance mode)	57.65.06	1.40




## REPAIR PROCEDURE

### ACTIVATE TIGHT TOLERANCE MODE


 **NOTE:** Suspension ride height calibration is not required during this process.

 **CAUTION:** A Midtronics PSC-550 Vehicle Power Supply must be connected to the vehicle battery during diagnosis and module configuration. The battery must be sufficiently charged. The diagnostic lead must be correctly secured to prevent accidental disconnection during the software update.

1. Connect the diagnostic equipment to the vehicle and begin an IDS session by entering the correct VIN for the current vehicle.
2. Select the 'Configuration' tab.
3. Select 'Set up and Configure'.
4. Select 'Air Suspension'.
5. Select 'Suspension Geometry Set Up'.
6. Select 'Tight Tolerance Mode'


 **NOTE:** Once the vehicle is in tight tolerance mode IDS can be disconnected. The vehicle will remain in tight tolerance mode until Normal mode is selected.

7. Follow the on screen instructions.
8. Exit the IDS session and disconnect the diagnostic equipment from the vehicle.

 **NOTE:** Global Technical Reference (GTR) lookup sequence is as follows:  
GTR Home > NAS > Service Information/ LA – LR3 > Workshop Manuals > Bookmark  
"Chassis/Suspension/204-00: Suspension System – General Information/General Procedures"

9. Refer to GTR section 204-00 and adjust the vehicle geometry as necessary.

### RESET TO NORMAL MODE

 **CAUTION:** A Midtronics PSC-550 Vehicle Power Supply must be connected to the vehicle battery during diagnosis and module configuration. The battery must be sufficiently charged. The diagnostic lead must be correctly secured to prevent accidental disconnection during the software update.

1. Connect the diagnostic equipment to the vehicle and begin an IDS session by entering the correct VIN for the current vehicle.
2. Select the 'Configuration' tab.
3. Select 'Set up and Configure'.
4. Select 'Air Suspension'.
5. Select 'Suspension Geometry Set Up'.
6. Select 'Normal Mode'.
7. Follow the on screen instructions.
8. Exit the IDS session and disconnect the diagnostic equipment from the vehicle.