

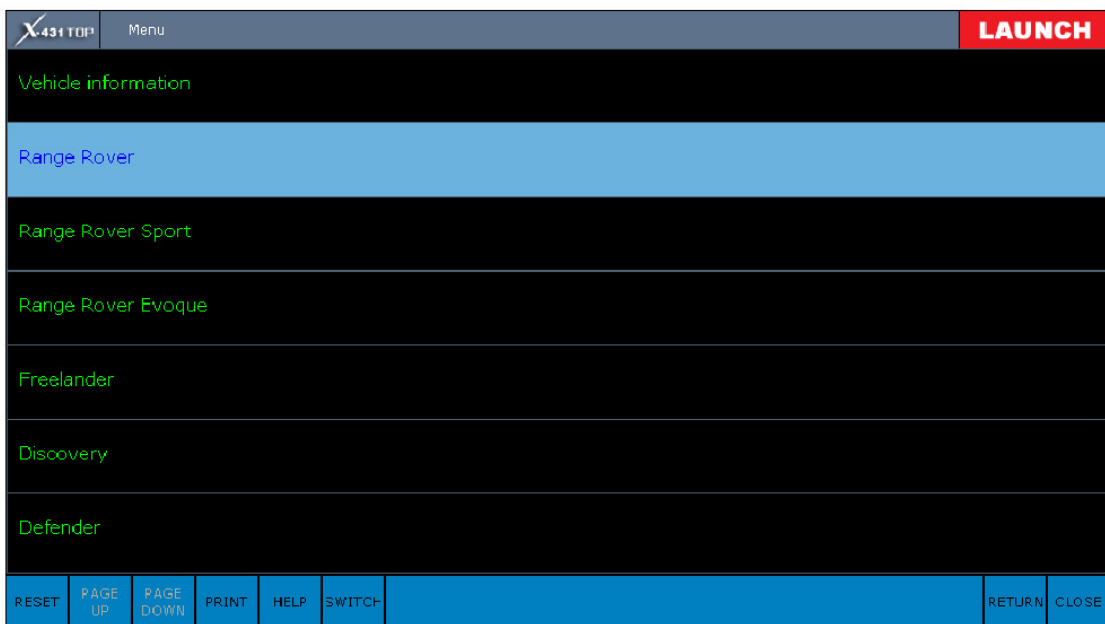
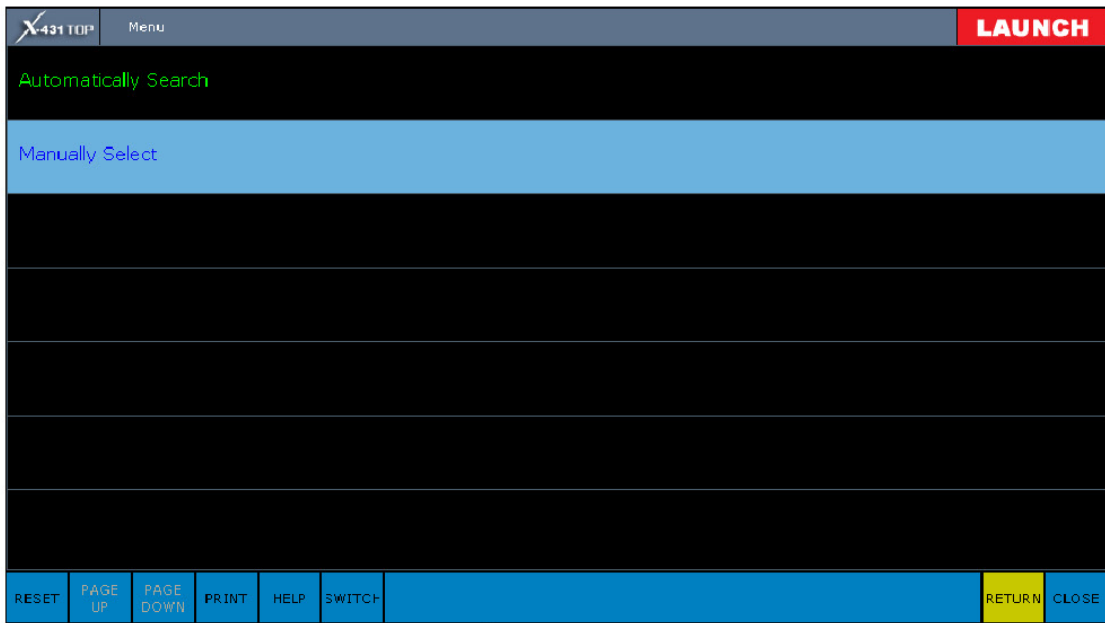
RangeRover 2006 Air suspension height calibration

Vehicle: Land Rover

Type: RangeRover

Year:2006

Function:Air suspension height calibration



X-431 TOP	Menu						LAUNCH
1995 - 1999							
1999 - 2002							
2002 - 2005							
2006							
2007 - 2009							
2010-2012							
2013							
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH	RETURN CLOSE	

X-431 TOP	Menu						LAUNCH
STR6 Diesel(M57R)							
Normal Aspirated Petrol V8							
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH	RETURN CLOSE	

X-431 TOP	Menu						LAUNCH
Function of reading vehicle code							
Function of clearing vehicle code							
Engine							
Instrument cluster control module							
Auto gearbox							
Vehicle dynamics control module							
Ride level control module							
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH	RETURN CLOSE	

X-431 TOP	Function Select	LAUNCH
Read trouble code		
Clear trouble code		
Read DataStream		
Version information		
Special function		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X-431 TOP	FUNCTION MENU	LAUNCH
Air suspension height calibration		
Air suspension deflation		
Air suspension enable		
Set/un-set air suspension tight to		
Set/un-set air suspension geomet		
Suspension tight tolerance control		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X-431 TOP Air suspension height calibration

This application will calibrate the height of the air suspension. Press the confirmation tick to continue or CANCEL to exit.

OK CANCEL

X-431 TOP	FUNCTION MENU	LAUNCH
Air suspension height calibration		
Air suspension deflation		
Air suspension enable		
Set/un-set air suspension		
Set/un-set air suspension		
Suspension tight tolerance		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X-431 TOP Air suspension height calibration

Special ride height measurement tools are required to calibrate the suspension height sensors. Vehicle height calibration should not be attempted if there are any current or historic fault codes stored in the air suspension module.

Read and clear any air suspension fault codes before continuing.

Make sure the wheels, tires, tie rod ends, suspension joints and wheel bearings are free from damage, wear and free play.

Open the driver's window for routing cables.

With the engine running and all doors closed, ensure the air suspension is functioning and the vehicle height can be raised and lowered using the air suspension switch.

Set the ride height to normal and wait until the system stops adjusting.

This is indicated by the normal height symbol on the air suspension switch being illuminated and all other symbols extinguished.

Normal ride height must be achieved before the vehicle is driven on to the measurement area. Do you wish to continue?

OK CANCEL

X-431 TOP	FUNCTION MENU	LAUNCH					
Air suspension height calibration							
Air suspension deflation							
Air suspension enable	X-431 TOP Air suspension height calibration						
Set/un-set air suspension	The suspension calibration tolerances are small, therefore it is essential that the height values entered are accurate. The application will allow 3 attempts to calibrate the suspension. Failure to achieve a successful calibration is likely to be caused by measurement error, incorrect measuring conditions, or a vehicle fault. The application will not accept measurement entries if they are too high or too low. If this occurs then check the vehicle's suspension system for correct operation. The application will also not accept measurement entries if they show that the measurement conditions are incorrect. Follow the displayed advice if this occurs.						
Set/un-set air suspension	OK						
Suspension tight tolerance control							
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH	RETURN	CLOSE

X-431 TOP	FUNCTION MENU	LAUNCH					
Air suspension height calibration							
Air suspension deflation							
Air suspension enable	X-431 TOP Air suspension height calibration						
Set/un-set air suspension	Make sure tire pressure are within specification. Make sure there are no heavy object in the vehicle. The ride height must be measured with the vehicle supported by the suspension. The calibration floor must be a flat, level, smooth surface. The calibration floor area must be in a plane with less than 3 degrees slope when viewed left to right or front to rear. Make sure the steering is in the straight ahead position. The air suspension warning lamp may be illuminated during this procedure, this is due to the vehicle being placed into calibration.						
Set/un-set air suspension	OK						
Suspension tight tolerance control							
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH	RETURN	CLOSE

X-431 TOP	FUNCTION MENU	LAUNCH					
Air suspension height calibration							
Air suspension deflation							
Air suspension enable	X-431 TOP Air suspension height calibration						
Set/un-set air suspension tight to	Start the engine. Make sure nobody is in the vehicle and close all doors						
Set/un-set air suspension geome	OK						
Suspension tight tolerance control							
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH	RETURN	CLOSE

X-431 TOP	FUNCTION MENU	LAUNCH
Air suspension height calibration		
Air suspension deflation		
Air suspension enable		
Set/un-set air suspension tight to		
Set/un-set air suspension geom		
Suspension tight tolerance control		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X-431 TOP Air suspension height calibration

Front and rear cross link valves fully open.

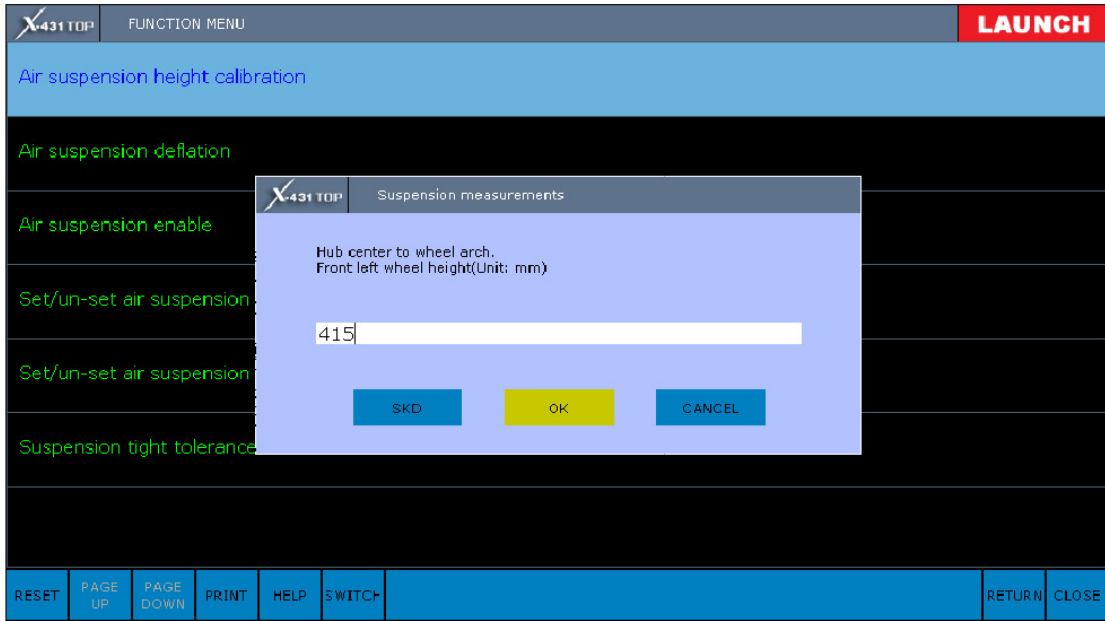
OK

X-431 TOP	FUNCTION MENU	LAUNCH
Air suspension height calibration		
Air suspension deflation		
Air suspension enable		
Set/un-set air suspension tight to		
Set/un-set air suspension geom		
Suspension tight tolerance control		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X-431 TOP Air suspension height calibration

Use the following screen to enter suspension height measurements. Ensure measurements are made on the wheel required.

OK



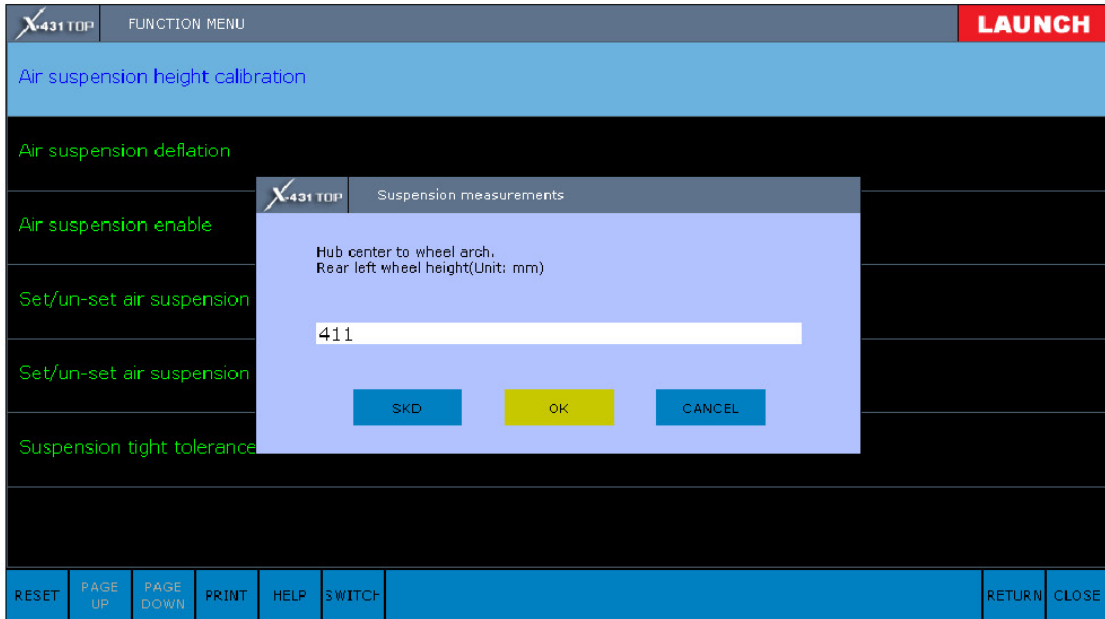
Front left wheel height: $X1 = 415 \text{ mm}$

Range: $378 < X1 < 597$



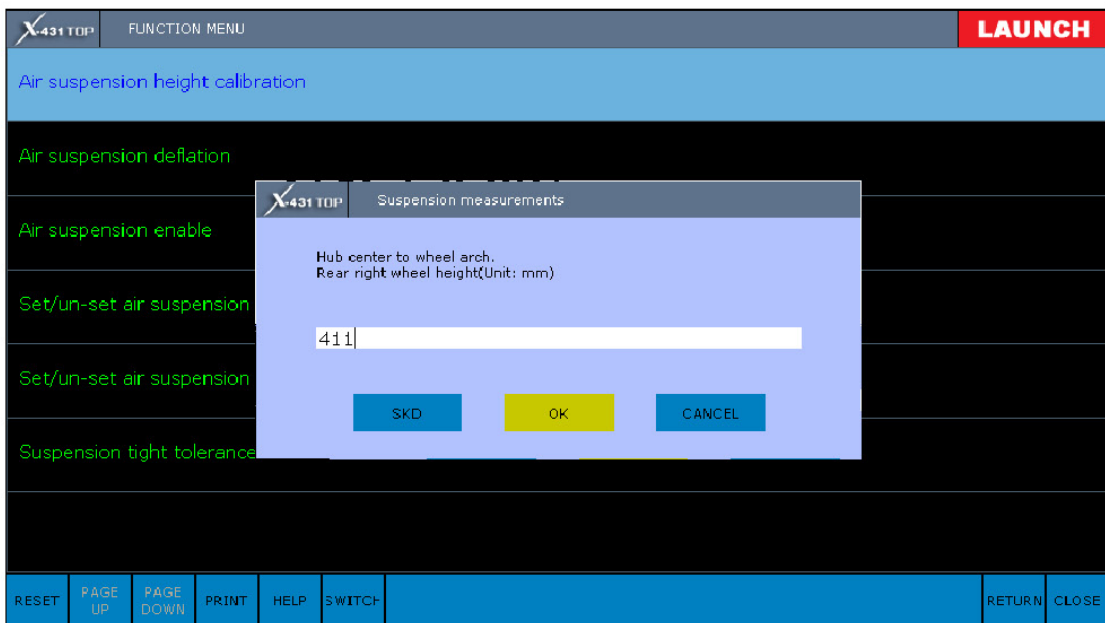
Front right wheel height: $X2 = 413 \text{ mm}$

Range: $378 < X2 < 597$



Rear left wheel height: $X3 = 411 \text{ mm}$

Range: $378 < X3 < 597$



Rear right wheel height: $X4 = 411 \text{ mm}$

$Y = X1 + X4 - X2 - X3$

$Y = 2 \text{ mm}$

Range: $378 < X4 < 597$

$-12 \leq Y \leq 12 \text{ mm}$

X-431 TOP						FUNCTION MENU						LAUNCH	
Air suspension height calibration													
Air suspension deflation													
Air suspension enable													
Set/un-set air suspension tight to													
Set/un-set air suspension geom													
Suspension tight tolerance control													
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH					RETURN	CLOSE		

X-431 TOP						FUNCTION MENU						LAUNCH	
Air suspension height calibration													
Air suspension deflation													
Air suspension enable													
Set/un-set air suspension tight to													
Set/un-set air suspension geom													
Suspension tight tolerance control													
RESET	PAGE UP	PAGE DOWN	PRINT	HELP	SWITCH					RETURN	CLOSE		

The Vehicle will now go to off-road ride height. This could take up to 5 minutes to complete. Please wait...

X431 TOP	FUNCTION MENU	LAUNCH
Air suspension height calibration		
Air suspension deflation		
Air suspension enable		
Set/un-set air suspension tight to		
Set/un-set air suspension geom		
Suspension tight tolerance control		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X431 TOP Air suspension height calibration

Front and rear cross link valves fully open.

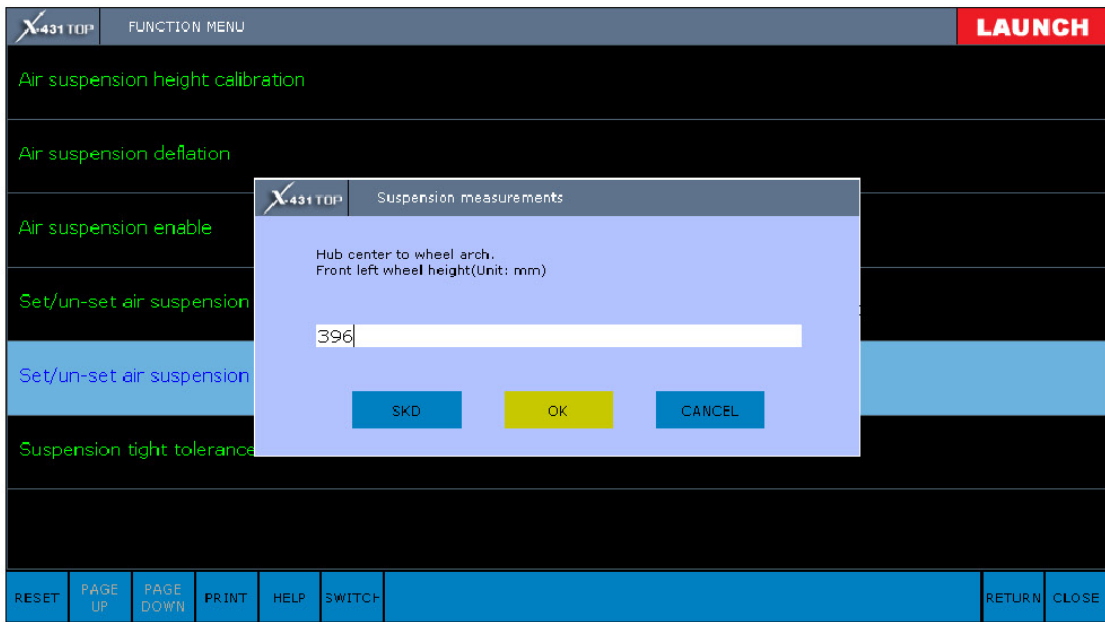
OK

X431 TOP	FUNCTION MENU	LAUNCH
Air suspension height calibration		
Air suspension deflation		
Air suspension enable		
Set/un-set air suspension tight to		
Set/un-set air suspension geom		
Suspension tight tolerance control		
RESET	PAGE UP	PAGE DOWN
PRINT	HELP	SWITCH
		RETURN
		CLOSE

X431 TOP Air suspension height calibration

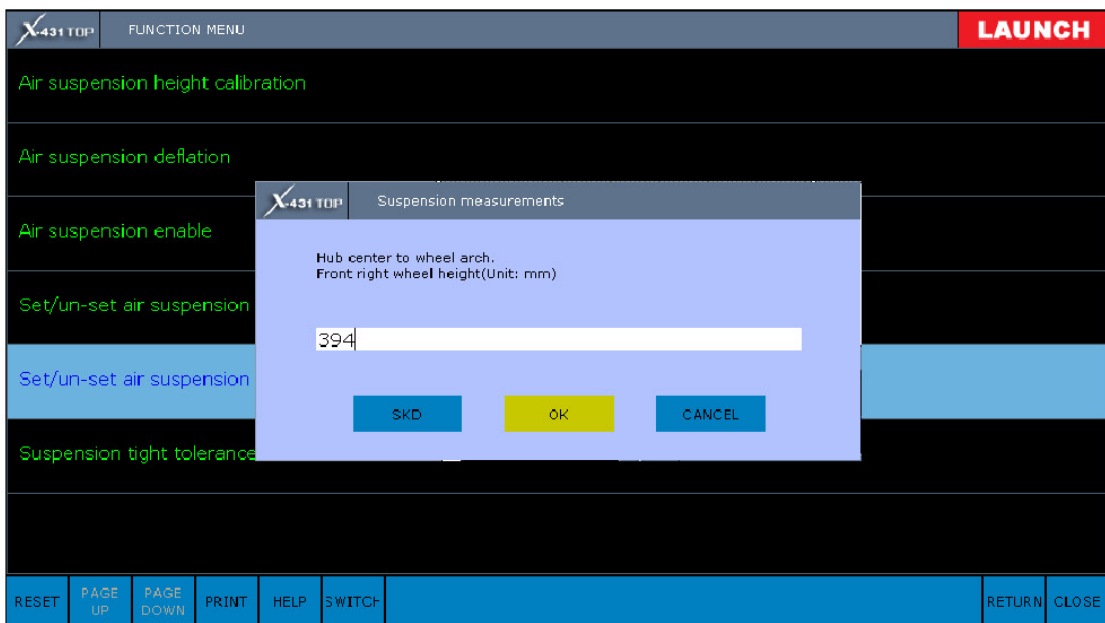
Use the following screen to enter suspension height measurements. Ensure measurements are made on the wheel required.

OK



Front left wheel height: $X1 = 396$ mm

Range: $378 < X1 < 597$



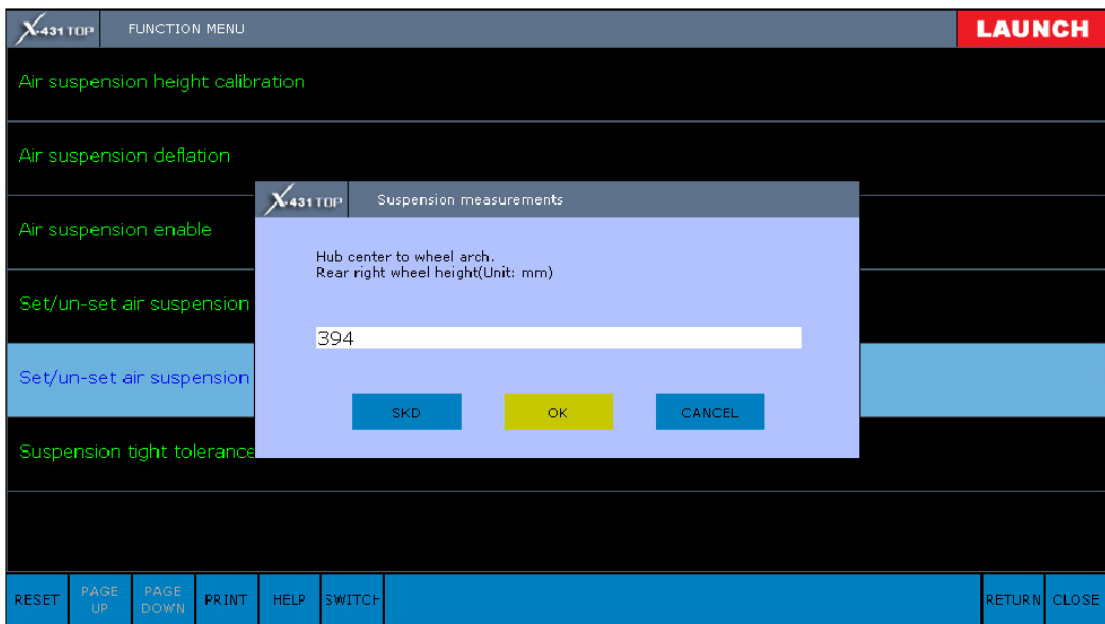
Front right wheel height: $X2 = 394$ mm

Range: $378 < X2 < 597$



Rear left wheel height: $X3 = 392$ mm

Range: $378 < X3 < 597$



Rear right wheel height: $X4 = 394$ mm

$Y = X1 + X4 - X2 - X3$

$Y = 4$ mm

Range: $378 < X4 < 597$

$-12 \leq Y \leq 12$ mm

