



DA-ST512
(Brake System Application)
User's Manual

Brake System Application

This application allows the operator to perform various set up and calibration procedures for brake and suspension components after they have been replaced. It covers the typical components listed under Brake System in IDS/SDD.

Brake System Process

On starting the application a menu displays the components that are supported. It should be noted that some components are vehicle and variant dependant and reference should be made to the applications matrix.

The following menu options are available -

Steering Angle Sensor - This routine is required to recalibrate the steering angle centre position. Make sure that the steering wheel is in the central position and that the front wheels are in the straight forward position.

Yaw Rate Sensor - This routine will calibrate the yaw rate sensor. The system must be fault free before continuing with this sensor calibration. Make sure the vehicle is stationary on level ground and that the brake pedal is not depressed.

Longitudinal Accelerometer - This routine will calibrate the longitudinal accelerometer. The system must be fault free before continuing with this sensor calibration. Make sure the vehicle is stationary on level ground and that the brake pedal is not depressed.

Lateral Accelerometer - This routine will calibrate the lateral accelerometer. Make sure the vehicle is stationary on level ground and that the brake pedal is not depressed.

Roll Sensor - This routine will calibrate the roll sensor. The system must be fault free before continuing with this sensor calibration. Make sure the vehicle is stationary on level ground and that the brake pedal is not depressed.

Pressure Sensor - This routine will calibrate the pressure sensor. The system must be fault free before continuing with this sensor calibration. Make sure the vehicle is stationary on level ground and that the brake pedal is not depressed.

Select one of the above options to start the set up procedure required, further details of which are described in the 'General Procedure' section below.

General Procedure



Please ensure the vehicle is in a safe working mode prior to exercising the following procedure. Also ensure the vehicle it is fault free (i.e. no DTC's logged).

- The trigger is for the operator to switch on the vehicle ignition. If this is not currently on, then you will be asked to turn it on and to press **OK** when this has been done.
- On detecting the ignition state (or engine state), the process starts to run and the message '**Please wait**' is displayed on the screen.
- Follow all instructions regarding steering wheel and wheel positions etc. The procedure may be aborted at this stage by pressing the **X** button.
- The process will complete in approximately 60 seconds depending on the option selected.
- Once the process has successfully completed a message "**PROCEDURE COMPLETE**" will be displayed. Pressing the **OK** button will return to the main menu.

Note: If the process fails for whatever reason, a failure message will be displayed. At this time the process should be repeated ensuring that all conditions for the process have been met. Read the fault codes and investigate the failure.

- To abort the procedure press the **X** button on the keypad at any time.

Brake System Model Year Updates

The software associated with the Brake System application is updated periodically to increase it's coverage for new JLR vehicles and model year updates. You can check for these updates by connecting your device to a PC via the supplied USB cable, and launching the DA App Hub. This tool will connect to the Diagnostic Associates file server and check to see if a newer version of the Vehicle Brake System application is available to download.

Brake System Supported JLR Vehicles

The following JLR vehicles and associated model years are supported by the Brake System application at the time this user manual was produced. To obtain an up-to-date version of this table you should visit the Diagnostic Associates website.

Jaguar & Land Rover Vehicle Coverage						
Brake System						
Vehicle / Application	Steering Angle	Yaw	Longitudinal	Lateral	Roll	Pressure
Defender	-	-	-	-	-	-
Discovery /LR3/LR4	MY05-16	MY10-16	MY05-16	-	-	-
Range Rover Sport	MY05-13	MY10-13	MY05-16	-	-	-
Range Rover	MY05-12	MY10-12	MY05-16	-	-	-
Freelander /LR2	MY13-15	MY07-12	MY07-15	MY07-15	MY07-15	MY07-15
Evoque	MY12-15	-	-	MY12-15	MY12-16	MY12-15
Discovery Sport	MY15-16	-	MY15	-	-	MY15
XJ - New	-	-	-	-	-	-
XJ - Old	-	-	-	-	-	-
XK - New	-	-	-	-	-	-
XK - Old	-	-	-	-	-	-
XF	-	-	-	-	-	-
XE	-	-	-	-	-	-
F-Type	MY14-15	-	-	-	-	-
S-Type	-	-	-	-	-	-
X-Type	-	-	-	-	-	-
(-) - N/A						