



DA-ST512
(Vehicle Adaptions Reset Application)
User's Manual

Vehicle Adaptions Reset Application

This application allows the operator to reset adaptions on petrol or auto transmission vehicles, and can also perform set up procedures for various engine components after they are replaced.

Vehicle Adaptions Reset Process

On starting the application the first menu displays two main options described below -

Adaption - Perform adaptions clearing on petrol and auto transmission vehicles.

PCM setup - Performs adaption clearing on engine component replacement.

Select one of the above options to display a sub-menu for the procedure required. Further details of each option are given below.

Adaption

After selecting this option the following sub-menu is displayed -

PCM - This will perform an adaptions clear on petrol and some diesel engine vehicles.

TCM - This will perform an adaptions clear on automatic transmission vehicles.

Select one of the above options to begin the adaptions clear procedure required, further details of which are described in the 'General Procedure' section below.

PCM Setup

The following sub-menu options are available, which are used when engine components are being replaced on the vehicle. (NOTE - not all options will be applicable to every vehicle) -

Reset water in fuel - This routine is required to reset the values of mileage and distance, which relates to the monitoring of water within the fuel. NOTE - The water must be manually drained from the fuel system prior to running this routine.

Throttle valve act. - This routine is required when a throttle valve actuator is replaced to allow the offset learn to be calculated.

EGR valve 1 - This routine is required if the exhaust gas recirculation valve 1 is replaced.

EGR Valve 2 - This routine is required if the exhaust gas recirculation valve 2 is replaced.

Oxygen sensor - This routine is required if the oxygen sensor is replaced. This routine will learn the offset values for the replacement oxygen sensor.

Turbine shut off. - This routine is required if the turbocharger is replaced. **NOTE** - the engine is required to be running for the Turbo Reset procedure.

Oxidation catalyst - This routine is required if the oxidation catalyst is replaced. This routine will learn the offset values for the replacement oxidation catalyst.

Differential pressure sensor - This routine is required when a diesel particle filter (DPF) differential pressure sensor is replaced. It will initialize any adjustment of the modules memory store values relating to the DPF.

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.

The following routines on **L316 Defender MY12->** are supported by a single menu on detection of this vehicle.

Throttle Valve act. - This routine is required when a throttle valve actuator is replaced to allow the offset learn to be calculated.

EGR valve - This routine is required if the exhaust gas recirculation valve is replaced.

Turbine Shut off - This routine is required if the valve is replaced.

Mass Air Flow sensor - This routine is required if the MAF is replaced.

DPF pressure sensor - This routine is required if the Diesel Particulate Filter pressure sensor is replaced.

Fuel pump reset - This routine is required if the High Pressure Fuel Pump is replaced.

Fuel pump enable - This routine will enable the fuel pump.

Fuel pump disable - This routine will disable the fuel pump.

Clear adaptive values - This routine will clear all learned adaptations.

General Procedure



Please ensure the vehicle is in a safe working mode prior to exercising the following procedure.

- 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. In the case where the engine is required to be running, then this will be asked for.
- On detecting the ignition state (or engine state), the process starts to run and the message '**Please wait**' is displayed on the screen. The process will complete in approximately 20 seconds.
- Once the application has successfully completed a message "**PROCEDURE COMPLETE**" will be displayed. Pressing the **OK** button will return to the main application 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.

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

Vehicle Adaptions Reset Model Year Updates

The software associated with the Vehicle Adaptions Reset 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 Adaptions Reset application is available to download.

Vehicle Adaptions Reset Supported JLR Vehicles

The following JLR vehicles and associated model years are supported by the Vehicle Adaptions Reset 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										
Vehicle Adaptions Reset										
Vehicle/Model Year	MY05	MY06	MY07- MY09	MY10	MY11	MY12	MY13	MY14	MY15	MY16
Defender	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes
Discovery/LR3/LR4	Yes*	Yes*	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Range Rover Sport	Yes*	Yes*	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Range Rover	Yes*	Yes*	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Freelander/LR2	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
Evoque	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes
Discovery Sport	-	-	-	-	-	-	-	-	Yes	Yes
XJ - New	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XJ - Old	-	-	-	-	-	-	-	-	-	-
XK - New	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
XK - Old	-	-	-	-	-	-	-	-	-	-
XF	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XE	-	-	-	-	-	-	-	-	-	Yes
F-Pace	-	-	-	-	-	-	-	-	-	Yes
F-Type	-	-	-	-	-	-	-	Yes*	Yes*	Yes*
S-Type	-	-	-	-	-	-	-	-	-	-
X-Type	-	-	-	-	-	-	-	-	-	-

(Yes) - Covered for MY : (Yes*) - Petrol PCM and TCM adaption clear only : (-) - N/A