



SP Diagnostics - www.spsupport.com



MAT platform Getting Started Guide

Multi-Application Tool

This guide will give you a step-by-step guide of how to use the multi-application tool and how to access the functions built into it.

Version 1.001

MAT - Multi Application Tool

Please read this information carefully before using your new Multi-Application Tool

Thank you for purchasing your MAT Tool. We at SP Diagnostics believe that you will have many years of successful business as a result of your investment and it is our aim to ensure that you will remain as up-to-date as possible. Please refer to these instructions when using the tool, if you experience any difficulties then please contact the technical help line on the number below:

TECHNICAL HELP LINE NO. 01225 702 104

Please register your product with SP Diagnostics on-line at www.spsupport.com, which will give you exclusive access to the MAT support area!

By registering your product you can take advantage of the following:

- SP Diagnostics product and technical updates via email
 - SP Diagnostics will keep you up-to-date with new products, special offers and technical information
- Notification of application updates for your new MAT tool
 - Your new MAT tool is updateable. When updates are available notifications will be sent to all registered users and a posting will be made on the SP Diagnostics support website www.spsupport.com

Updating your MAT Tool

When you receive notification of an update, you can run the MAT suite and check for updates. The update will then be shown on the suite for you to download.

We are always keen to hear back from customers regarding our products, and what you would like to see included. If you have any specific thoughts, please feel free to contact our Technical Support Help line on **01225 702 104** and discuss them with the team. Also, don't forget to log in to the **SP Diagnostics Support Forum** where you can share experiences and ask questions to SP Diagnostics technical staff and other SP Diagnostics customers. Check the **SP Diagnostics Support** website www.spsupport.com for regular updates and product news.

Training

SP Diagnostics can provide access to several training courses. Please contact customer services on **01225 702 104** for more details.

Features:

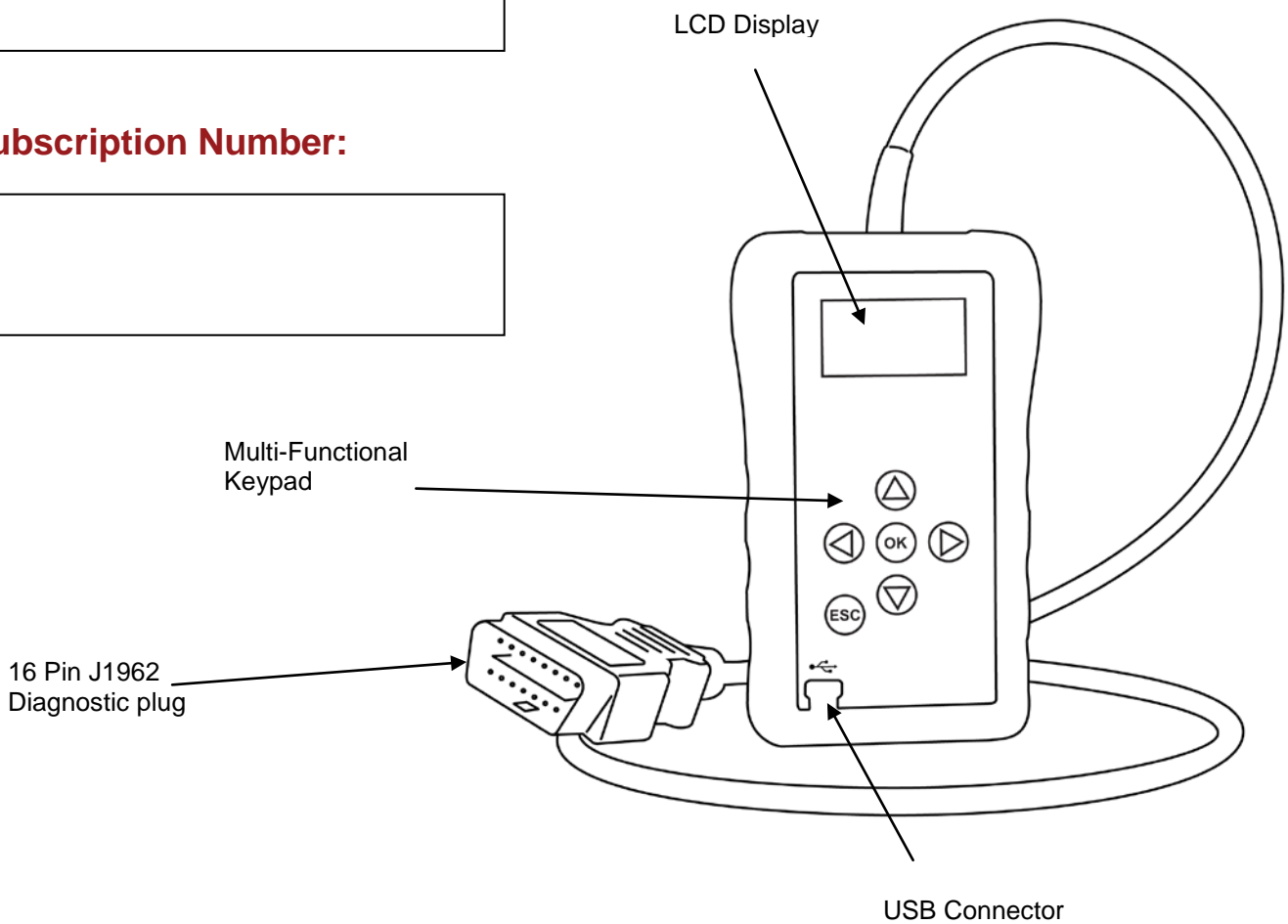
- Numerous Systems Covered
- Supports Vehicles with a 16 pin DLC.
- Simple Push Button Operation
- Handheld

Specifications:

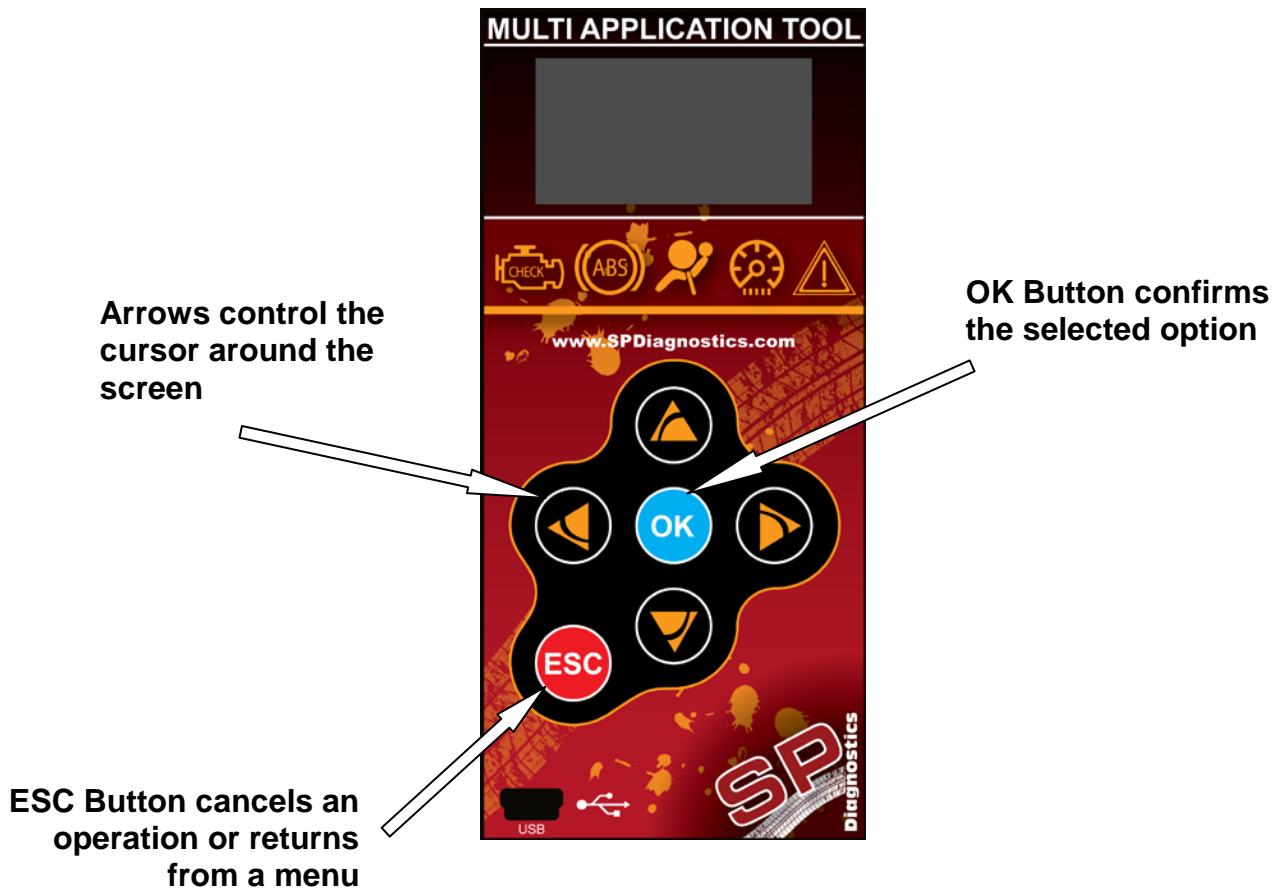
- J1850 VPW / PWM
- ISO High & Low Speed
- CAN
- Fault Tolerant CAN

Postal Code:

Subscription Number:

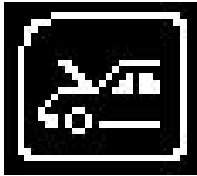


MAT Tool Navigation

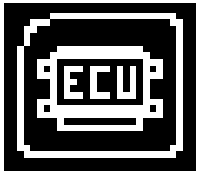


Menu & Icons

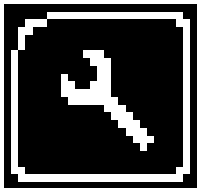
Main Menu



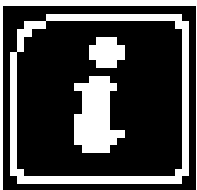
Diagnostic / Vehicle Selection – Select this to go into Vehicle Specific Serial Diagnostics



Diagnostic / ECU Selection – Select this to go into ECU Specific Serial Diagnostics

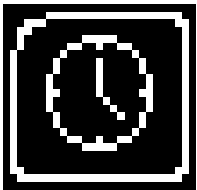


System Setup – Select this to configure the various settings of the MAT Tool

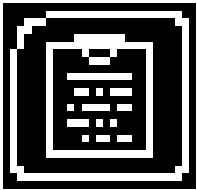


Information – Select this to display software and hardware version information

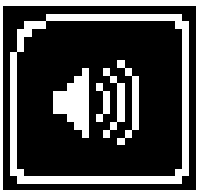
System Setup Menu



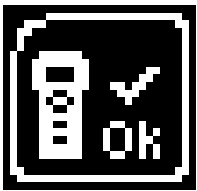
Clock – Select this to view the date and time of the MAT Tool



Garage / Workshop Information – Select this to display your user details. This is changed through the PC Suite



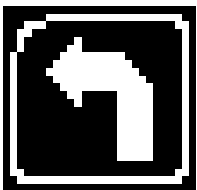
Volume – Select this to turn the sounder ON or OFF



Test – Select this to carry out hardware tests on the MAT Tool if requested by Technical Support

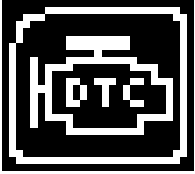


Language Selection – Select this icon to change the language used by the MAT Tool.

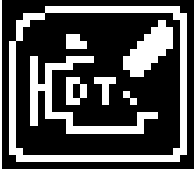


'Back' – Select this to return to the previous menu

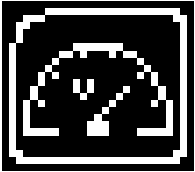
Icons used (depending on Software purchased)



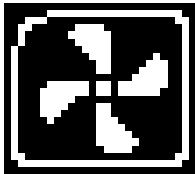
Diagnostic Trouble Codes – Select this to read the Diagnostic Trouble Codes on the vehicle you are currently diagnosing.



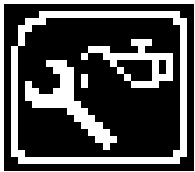
Erase Diagnostic Trouble Codes – Select this to clear the Diagnostic Trouble Codes on the vehicle you are currently diagnosing.



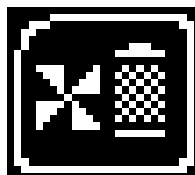
Live Data – Select this to display Live Data (Components) for the vehicle you are currently diagnosing.



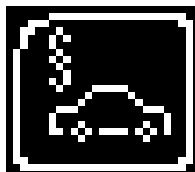
Actuator – Select this to run actuators for the vehicle you are currently diagnosing.



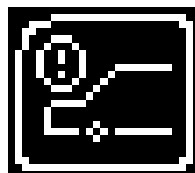
Service – Select this to access service related functions only. Service functions are also accessible under the vehicle selection option.



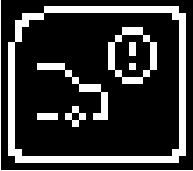
Micro Filter - Heating, air conditioning or automatic air conditioning: replace micro filter/carbon canister this is important because micro filters trap 80% of the pollen and traffic fumes before it gets into the cabin, helps keep drivers and passengers alert and helps demist windows quickly even on a rainy winter's day.



Statutory Inspection - (where relevant) - Statutory inspection for vehicles 3 years and older

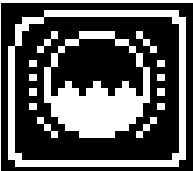


Front Brake Pads - Brake pads are changed, and the brake caliper cavities are cleaned. Failure to get your brake pads replaced will result in a reduction in braking performance, and if the calipers are cleaned, any squeaking in the brakes should be diminished.

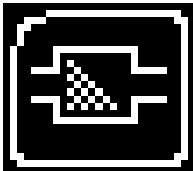


Rear Brake Pads - Brake pads are changed, and the brake caliper cavities are cleaned. Failure to get your brake pads matched correctly will result in a brake imbalance front to rear on your vehicle, and if the calipers are cleaned, any squeaking in the brakes should be diminished.

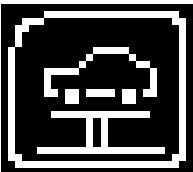
Brake discs:- Surface and thickness - the importance of having a safe level of thickness in your brake discs is paramount to your driving safety; if necessary, the brake discs will be replaced.



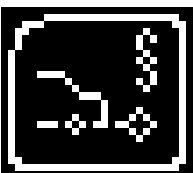
Brake Fluid - Brake fluid is changed. The problem with brake fluid is that it absorbs moisture from the air quickly. This is important because the amount of moisture in your brake fluid affects your vehicle's performance.



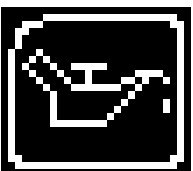
Diesel Particulate Filter - Diesel filter is changed. This filter is important to the general efficiency of diesel engines. As the fuel passes through this filter, unwanted particles and residue will become trapped, so that the fuel is passing to the engine is 'clean'. Therefore, this filter has to be replaced when indicated to ensure that your engine is running at optimum performance.



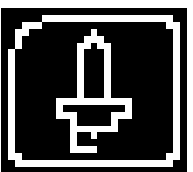
Vehicle Inspect – General inspection of the vehicle.



Emissions Test – This is part of the statutory test that tests the emissions fall within the limits required.



Engine Oil - The engine oil and oil filter are changed because keeping the oil at the right level and clean is vital to the protection and longevity of the life of movable engine parts. Also, if you do a lot of short journeys, your oil filter will be more susceptible to blockages caused by the condensation of water in the oil.



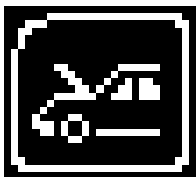
Spark Plugs - Spark plugs are replaced. When it comes to fuel efficiently, spark plugs are one of the most critical parts of a petrol/gasoline car's engine. Defective spark plugs can result in worsening emissions and increased fuel consumption, and can even result in misfires if not replaced. Replacing these worn spark plugs will improve the performance of the engine.

Quick Start Guide

Now you are ready to start using the MAT Tool to diagnose faults and also carry out service functions on the range of cars covered. Remember you can download the latest application list and instruction manuals from the following web address www.spsupport.com



Connect the MAT Tool to a vehicle using the 16 Pin Diagnostic plug. The MAT Tool will then power up and take you to the Main Menu screen.



Using the keypad, navigate to the Manufacturer Icon and press OK.

Using the keypad to navigate up and down the menus you will be given the following options:

Select the **Model**

Select the **Variant** of system

Select the **Fuel** type

Select the **Year** of the vehicle

Finally you will be shown the **System** or **Systems** fitted to that choice of vehicle

The MAT Tool will now load the correct software and establish communications with the vehicle!

Remember you can always call our Technical Support Helpline on 01225 702 104 for further assistance or speak to us about subscribing to the Vehicle Technical Support Helpline

Warnings (depending on software purchased):

Diesel Particulate Filter

- Regeneration must be undertaken on a level concrete surface.
- Regeneration must be undertaken externally and must not use exhaust extraction instead.
 - Must be undertaken away from combustible materials.
- Regeneration will generate high levels of heat and noise whilst being undertaken, you will need to:
 - Ensure adequate levels of fuel are available and regeneration must not be started if the fuel light is on.
 - Essential that the level of engine oil is checked to ensure sufficient is available.
 - Ensure that timing belts have been replaced in line with the manufacturer's service levels.
- Regeneration cannot repair worn or damaged components.
- Regeneration can take between 5 – 60 minutes dependent on the manufacturer.

Electronic Park Brake

- It may be necessary to use a wind back tool to manually push the piston back in to the caliper once the Open / Deactivate process has been completed. This should be done carefully ONLY after the process has been carried out fully.



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