

# ADVANCED CODE-READER



17

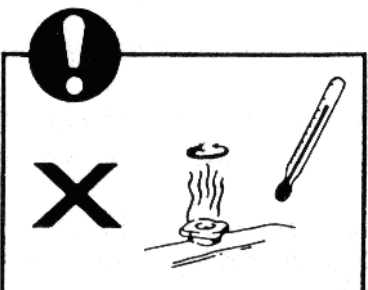
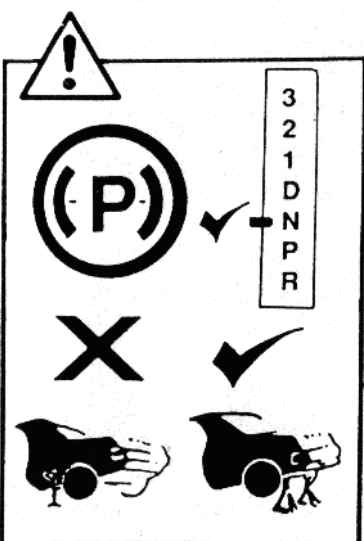
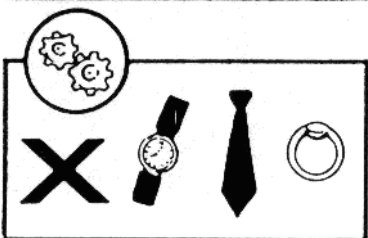
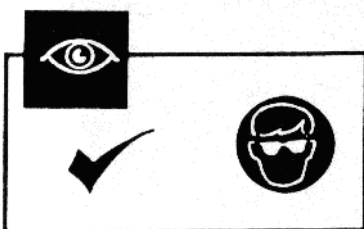
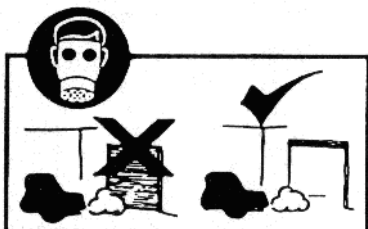
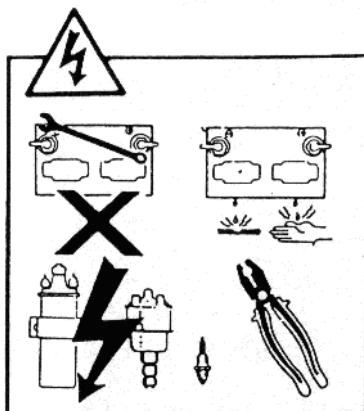
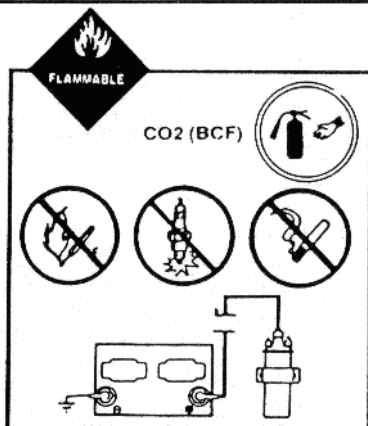
300550  
OPERATING  
INSTRUCTIONS



Sykes-Pickavant

# PLEASE NOTE:

The methods outlined in these instructions are intended as a general guide only. Always follow the vehicle manufacturers recommendations for the particular vehicle or system under test. Danger and damage can result if the correct procedures are not followed. In addition to manufacturers workshop manuals a useful source for specifications and data are the series of publications produced in the UK by Autodata, Haynes etc.





**Model 300550**

## **CONTENTS**

- 1 INTRODUCTION**
- 2 KEY TO UNIT**
- 3 GETTING STARTED**
- 4 CONNECTION**
- 5 INFORMATION**
- 6 S-P DIAGNOSTICS GUARANTEE**
- 7 SERVICE PROCEDURE**

## **1 INTRODUCTION**

The Sykes-Pickavant Advanced Code-Reader has been developed to simplify faultfinding in many of today's more complex vehicle systems.

The terminal uses a 2 line, 16 character display to guide the user through diagnostic trails.

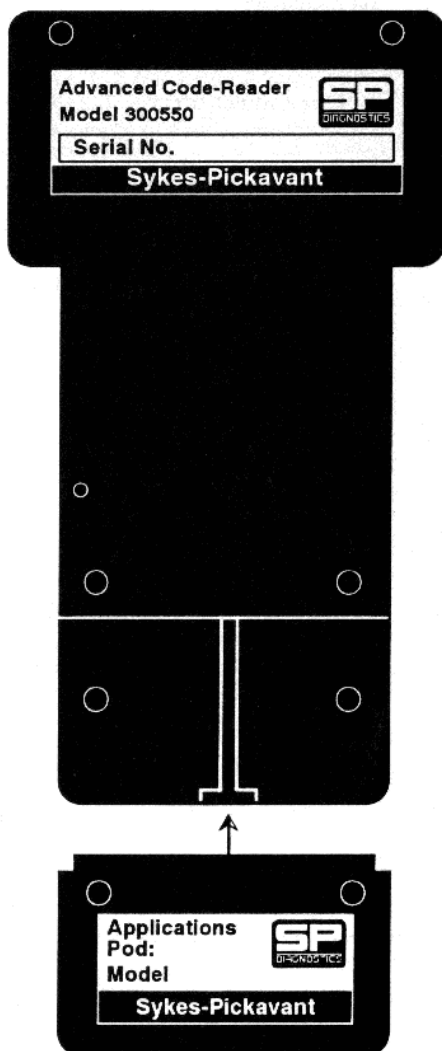
Menu driven displays accessed through one of only four buttons on the keypad ensure maximum information with minimum confusion.

A wide range of vehicle systems can be covered due to the program pod which contains the data applicable to the system under test. This facility also ensures the availability of inexpensive update information.

FRONT



REAR



By following the information supplied in the next few pages you will find that connection and testing are very simple but there are certain areas you need to be clear about before commencing tests.

### 1 **Is there a fault with the engine management system?**

If the engine warning lamp has not illuminated then it is quite likely that the ECU has not seen a fault. Under this condition either no fault codes or a System Pass code would be displayed.

### 2 **Which engine management system is fitted to the vehicle?**

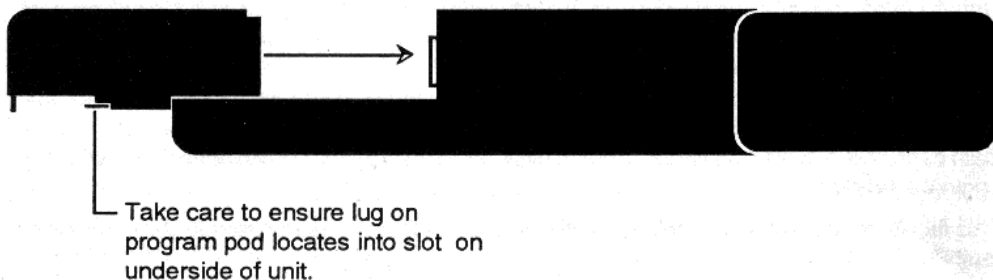
Before commencing with the test you need to be certain as to which system is fitted to the vehicle so that the correct program pod can be used.

### 3 **Are you connected to the diagnostic connector?**

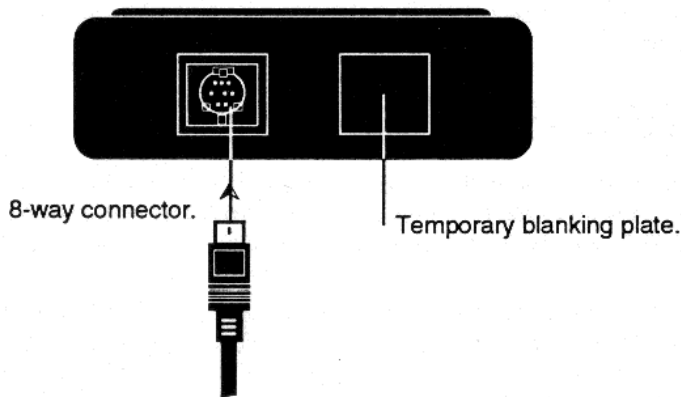
If the system is not responding at all it could be because you are not connected to the right connector. The same type of connector can be used many times for many different purposes on a vehicle so it could be possible for you to be connected to the wrong one.

## 4 CONNECTION

- 1) Insert program pod carefully into space provided on underside of unit.



- 2) Connect adaptor harness to the 8-way connector at top of unit.



- 3) Connect adaptor harness to vehicle diagnostic connector.
- 4) Connect red crocodile clip (if applicable) to battery positive.

**The unit will switch on automatically as power is supplied.**

**Fault Codes**

When a fault occurs on a vehicle system the ECU will record what has happened and store that information in its own internal memory (on most systems).

When that system is interrogated the ECU will transmit the information in the form of a 2 or 3 digit code. This code is then cross-referenced to a list supplied by the manufacturer relating codes to components.

Unfortunately, not all control units can identify when the fault occurred or if it is still present, but this can usually be established quite easily. The method is dependant on the system under test and will therefore be covered in each section.

**Data Capture**

Data capture is a facility available on some systems to read actual component values while the engine is running.

This facility is useful if a system has an intermittent fault or if a component is shown as being faulty.

Again, the diagnostic procedures are dependant on the system under test and will be covered in the relevant sections.

**Actuator Tests**

This facility allows you to drive certain actuators via the ECU. Driving the actuators via the ECU eliminates the possibility of causing damage to the component by incorrect connection etc.. The components that can be tested will be listed in the relevant sections.

**Miscellaneous Tests**

Certain tests/facilities will be unique to certain systems and these will be covered fully in the relevant sections.

**6 S-P DIAGNOSTICS GUARANTEE**

Sykes-Pickavant guarantee to the original purchaser that this product will be free of defects in material and workmanship for a period of 12 months from the date of purchase, providing it has not been damaged by accident, negligence, alteration, improper installation maintenance or repair.

Any product which fails during the guarantee period will be repaired or replaced, without charge, providing it has been carefully packed to avoid transit damage, and that proof of purchase is supplied with the returned goods. Consumable items such as batteries, fuses, bulbs etc. are excluded from the scope of this guarantee.

A written description of the problem should be sent to the Company as soon as reasonably practicable after a defect is noticed, and no further use should be made of the product before the Company is given the opportunity of inspecting it.

Products from the S-P Diagnostics range are also subject to the general Conditions of Sale published by Sykes-Pickavant in both the Company's Price List and Catalogue.

## **7 SERVICE PROCEDURE**

### **A GUARANTEE REGISTRATION**

Please return the postage paid Guarantee Card within one week of purchase. This will enable our Service Department to quickly process any guarantee claim that may be necessary, and will also ensure that you are kept up to date with new products introduced by Sykes-Pickavant.

### **B GUARANTEE CLAIMS**

Return the unit direct to your supplier, with a written description of the problem, and proof of purchase (e.g. original invoice). Your supplier will contact Sykes-Pickavant and ensure the product is packed and returned safely.

### **C OUT OF GUARANTEE SERVICE**

You can either return the unit to the Sykes-Pickavant Service Department directly, or through your normal supplier. Products within the S-P Diagnostics range can be repaired for a fixed charge, which includes a thorough condition check, and service.

During this service all faults are repaired and excessively worn components replaced. After servicing, products are fully guaranteed against faulty materials and workmanship for 6 months, unless otherwise stated.

If you return your product through your normal supplier, they will undertake to return the goods safely and will advise the Service Charge payable to them.

If you wish to return goods directly to Sykes-Pickavant you should telephone or write to the Service Department who will advise the Service Charge and carriage payable. Your cheque, made payable to Sykes-Pickavant Ltd, should accompany the goods.

Please note that if you are returning goods directly you must ensure they are correctly packed as Sykes-Pickavant cannot be held responsible for damage in transit.

### **D SERVICE OUTSIDE THE U.K.**

As servicing arrangements may vary from one overseas market to another you should check with your local supplier for full details of both "In" and "Out" of Guarantee servicing.

### **E TRANSIT PACKAGING**

If possible you should retain the packaging in which the product was first supplied as it can often prove difficult to find suitable material when it is necessary to return a product for service.

### **F SERVICE RETURN NUMBER**

Before returning any product, both distributors and users are requested to telephone, fax or write to the address below to obtain a Service Return Number. This will help us to ensure your returns are dealt with in a speedy and efficient manner.

SYKES-PICKAVANT LTD.  
DIAGNOSTICS SERVICE DEPARTMENT  
LORD STREET  
LYTHAM ST. ANNES  
LANCASHIRE FY8 2DF  
ENGLAND

TEL. 0253 714023

FAX. 0253 714892





## Sykes-Pickavant Ltd.

Kilnhouse Lane, Lytham St. Annes, Lancs, FY8 3DU England  
Telephone: 0253 721291 Telex: 67157 Fax: 0253 713076  
A member of the Sykes-Pickavant Group plc