

30352600

EOBD V2



Sykes-Pickavant®

- 1) Introduction - Read this first!
- 2) Applications
- 3) Connecting up
- 4) EOBD Modes
- 5) Help
- 6) Spares

EOBD

? EOBD ?

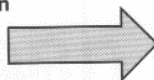
EOBD = European On-board Diagnostics



The information available from an EOBD compliant car will vary from make to make. Users **MUST** refer to manufacturer's data when accessing diagnostic modes. Sykes-Pickavant are **NOT** responsible for the content and performance of the EOBD modes.

- 1. Introduction
- 2. EOBD
- 3. Diagnostic Modes
- 4. Troubleshooting
- 5. Appendix

In accordance with European regulation 98/69CE 13/10/98 the EOBD pod is compliant with, and automatically selects, the following communication protocols :-



- ISO 9141-2
- ISO 14230
- ISO 115914
- ISO 115914
- KEYWORD 2000
- SAE J1850 VPM
- SAE J1850 PWM
- SAE J2284 CAN

The 30352600 EOBD pod, used in conjunction with the 30255400 ACR4 handset, conforms to ISO 15031-4



ISO 15031-4
OK



Old 2 line ACR handsets can only read and delete trouble codes (DTC's)



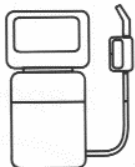
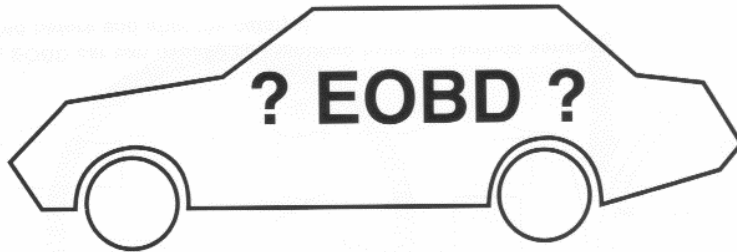
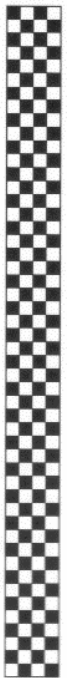
ACR2 30055000

? EOBD ?

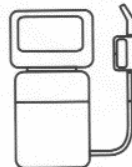


? EOBD ?

For a full explanation of EOBD diagnostic modes, please refer to ISO 15031-5 or SAE J1979



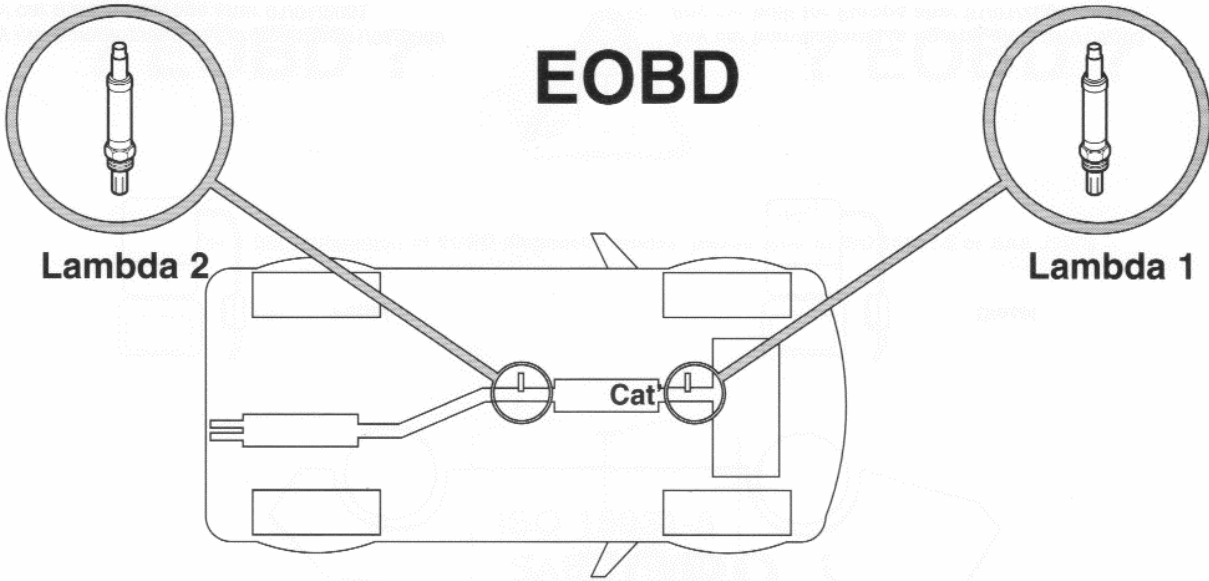
Petrol



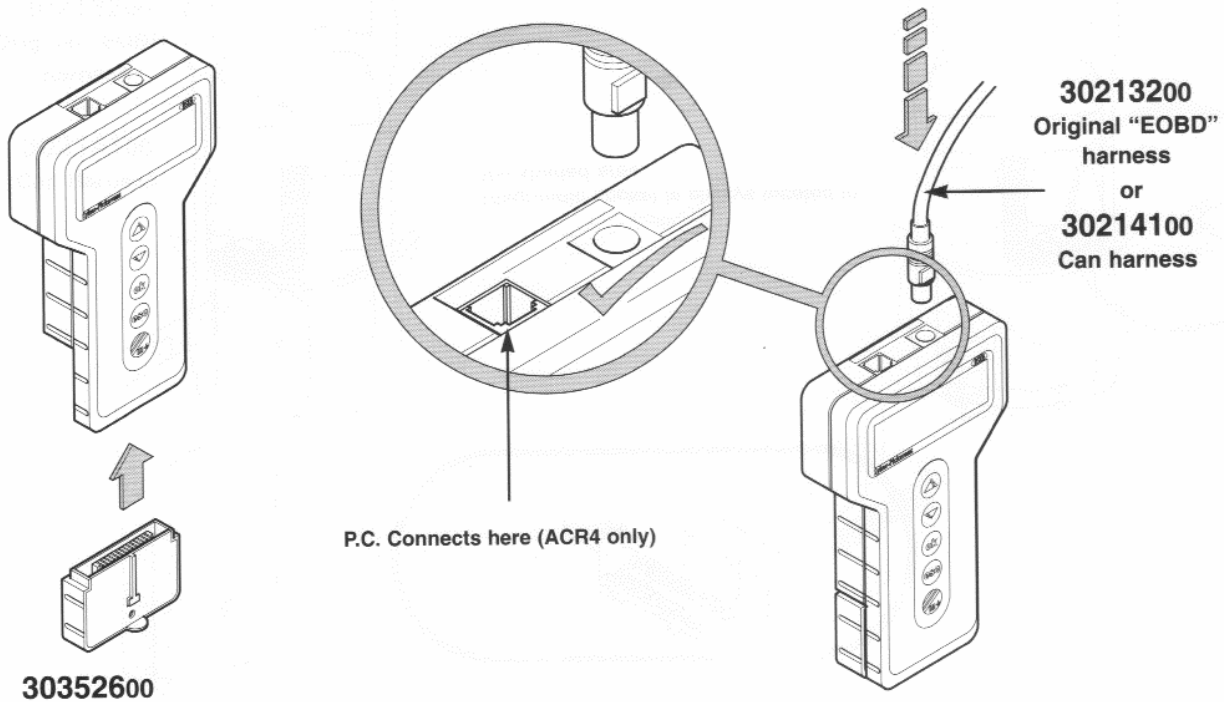
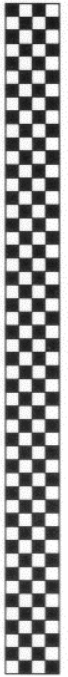
Diesel

Any car homologated in Europe after 01/01/2000
Any car built for Europe after 01/01/2001

Any car homologated in Europe after 01/01/2003
Any car built for Europe after 01/01/2004

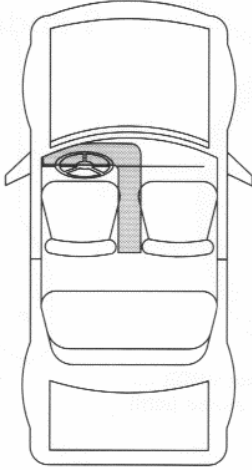
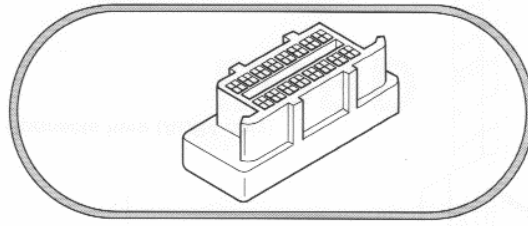


An EOBD car can usually be identified from the lambda sensors fitted before and after the catalyst.

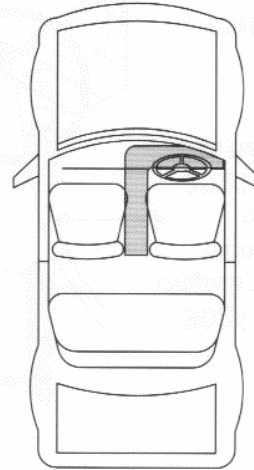


3

Connecting up



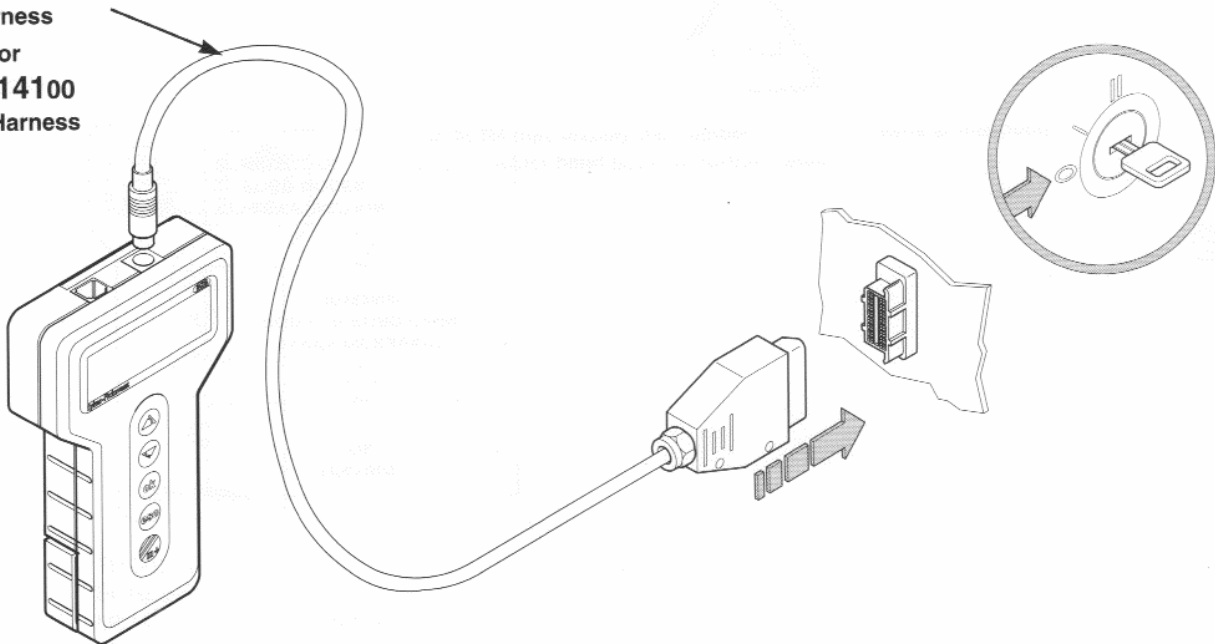
Diagnostic socket is always located in the shaded area.

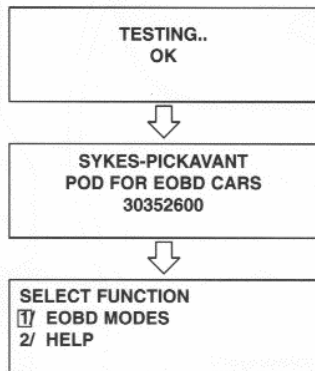


3

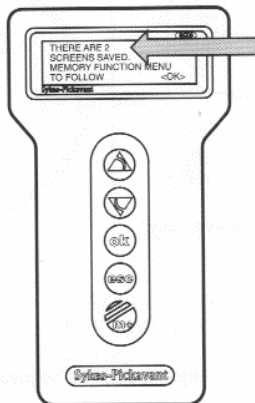
Connecting up

30213200
Original "EOBD"
harness
or
30214100
Can Harness





The ACR4 may display the number of saved screens at this point.
Refer to ACR4 hand book for further details.



THERE ARE 2
SCREENS SAVED.
MEMORY FUNCTION MENU
TO FOLLOW <OK>

3

Connecting up

ACR4

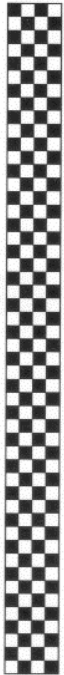
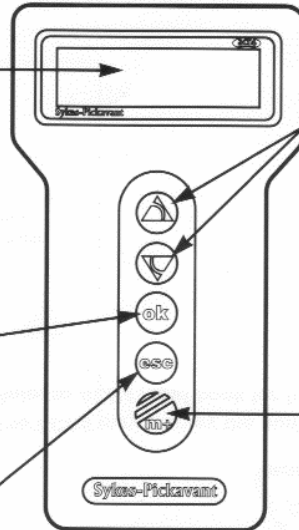
4 line, 20 character, backlit display

Up/down menu or option

Accept option

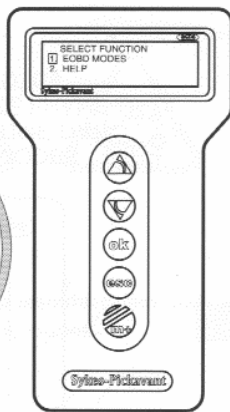
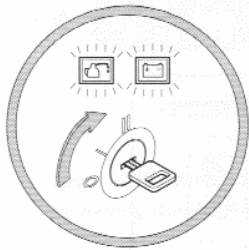
Save screen to memory

Esc(ape) = go back to previous menu



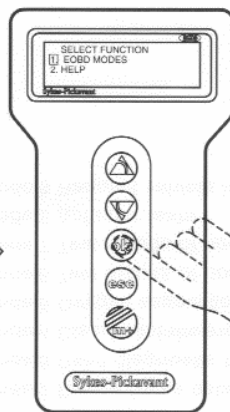
4

EOBD modes



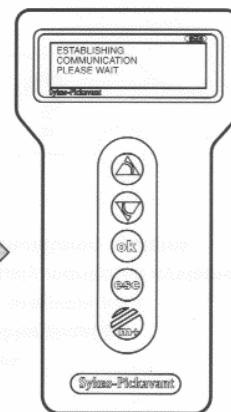
SELECT FUNCTION
1. EOBD MODES
2. HELP

Main menu



SELECT FUNCTION
ok → 1. EOBD MODES
← 2. HELP

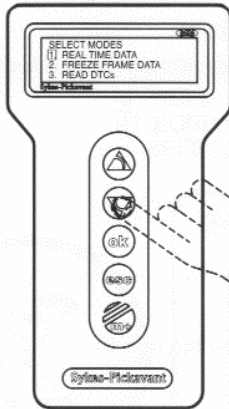
Choose EOBD modes



ESTABLISHING COMMUNICATION
PLEASE WAIT

ACR communicates with ECU

EOBD modes



- SELECT MODES
 1. REAL TIME DATA
 2. FREEZE FRAME DATA
 3. READ DTCs

Scroll down different modes

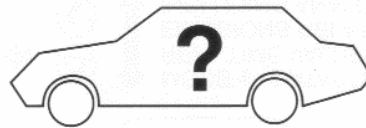
AVAILABLE EOBD MODES

- Mode 1 Datastream
- Mode 2 Freeze frame data
- Mode 3 Read diagnostic trouble codes
- Mode 4 Clear/reset diagnostic related information
- Mode 5 Oxygen sensor test results
- Mode 6 Test results of non-continuously monitored systems
- Mode 7 Test results of continuously monitored systems
- Mode 8 Actuator tests
- Mode 9 Request vehicle information

EOBD modes

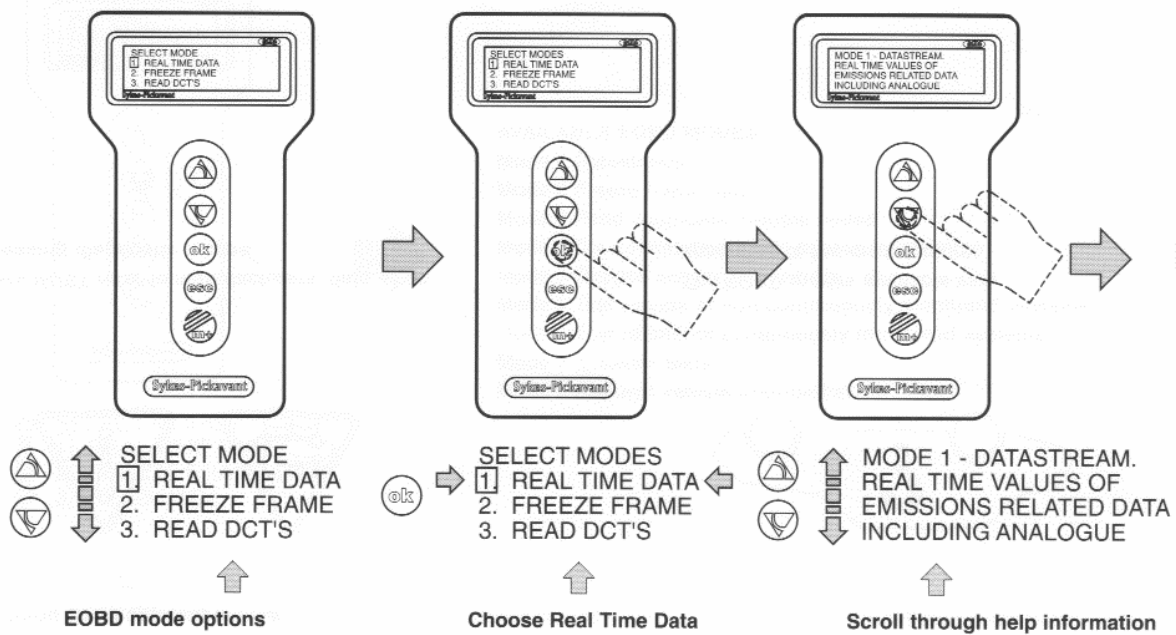


Users **MUST** refer to manufacturers' data when accessing diagnostic modes.

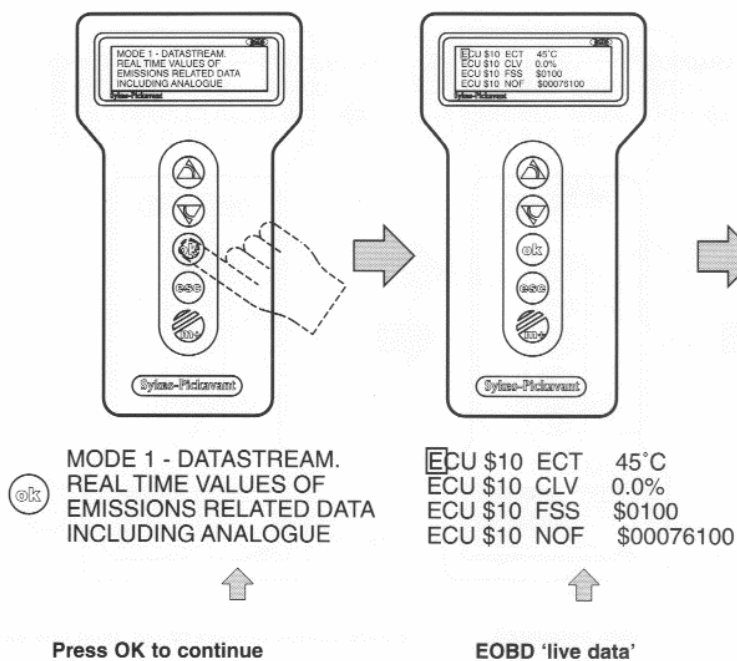


The EOBD modes available vary according to the manufacturer.

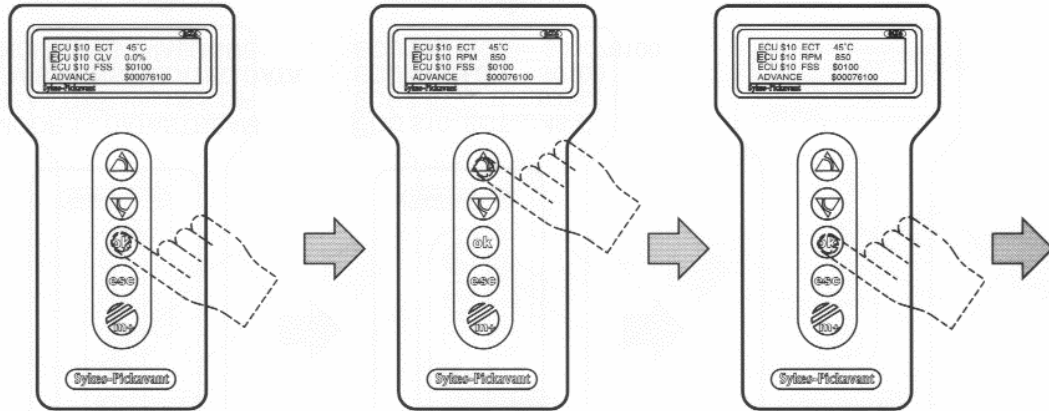
Example EOBd mode



EOBD modes



EOBD modes



↑ ECU \$10 ECT 45°C
 ← ECU \$10 CLV 0.0%
 ECU \$10 FSS \$0100
 ↓ ADVANCE \$00076100

ECU \$10 ECT 45°C
 ECU \$10 RPM 850
 ECU \$10 FSS \$0100
 ADVANCE \$00076100

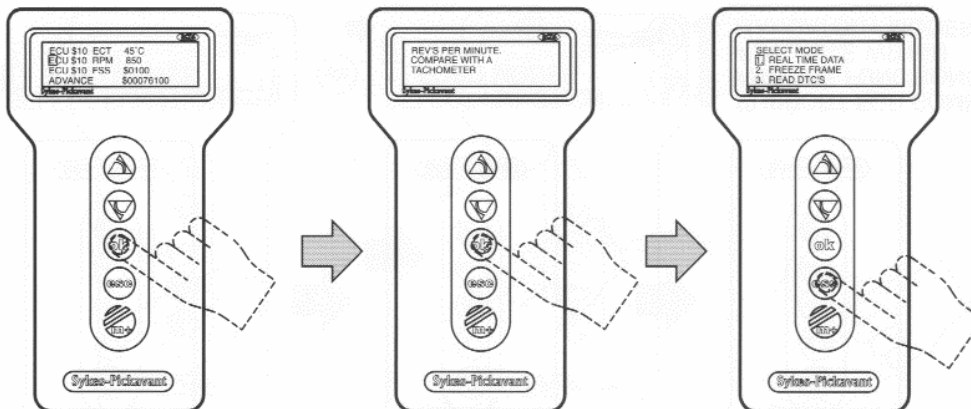
ECU \$10 ECT 45°C
 ECU \$10 RPM 850
 ECU \$10 FSS \$0100
 ADVANCE \$00076100

Press **ok** to move down screen

Press **▲ ▼** to change the component

After a few seconds of inactivity the cursor will disappear, press **ok** to bring it back

EOBD modes



ECU \$10 ECT 45°C
 ECU \$10 RPM 850
 ECU \$10 FSS \$0100
 ADVANCE \$00076100

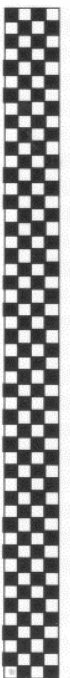
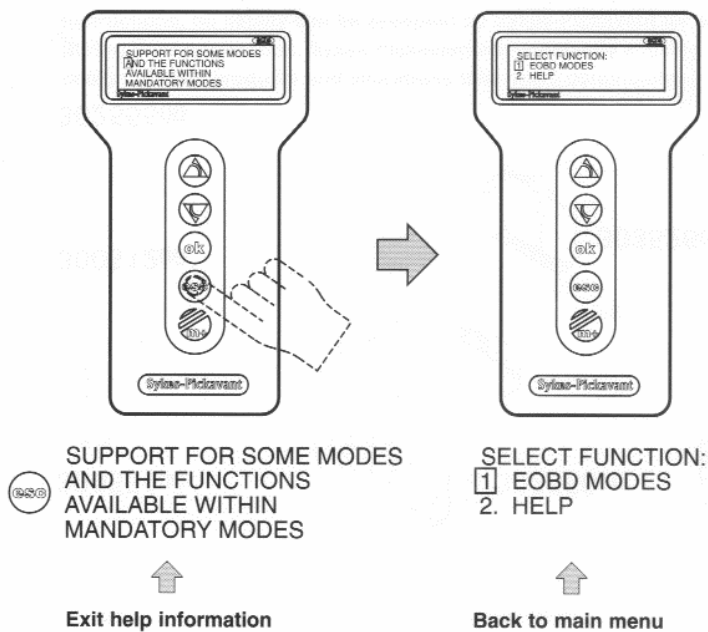
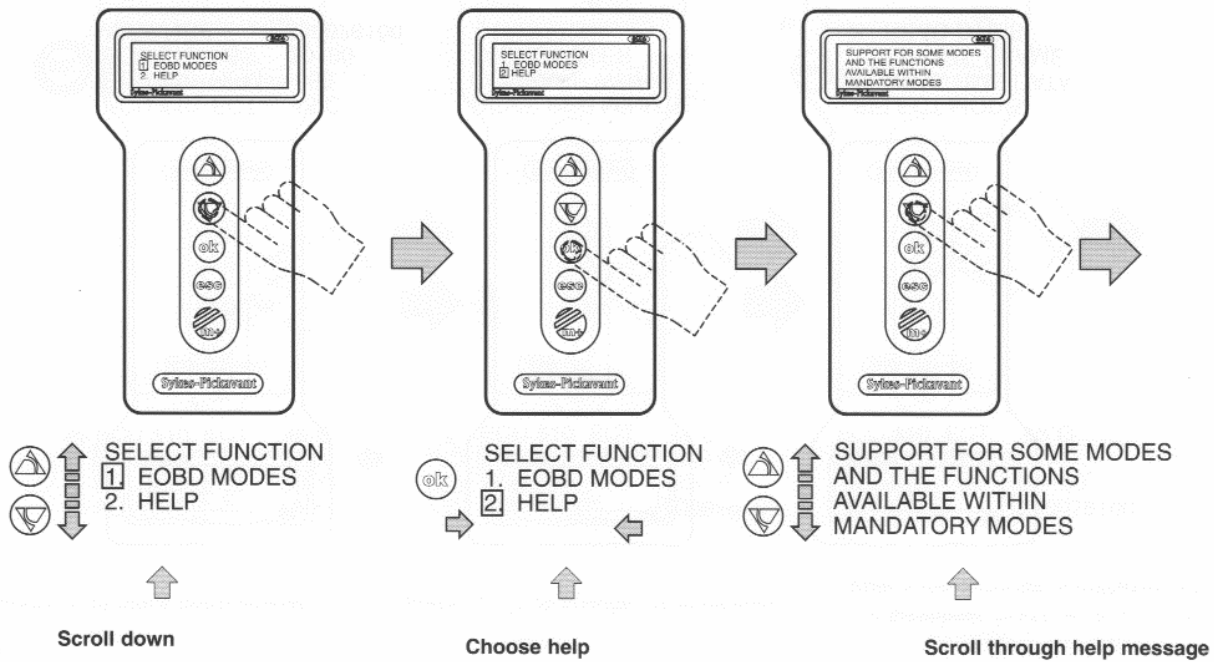
REV'S PER MINUTE.
COMPARE WITH A
TACHOMETER

SELECT MODE
 1. REAL TIME DATA
 2. FREEZE FRAME
 3. READ DTC'S

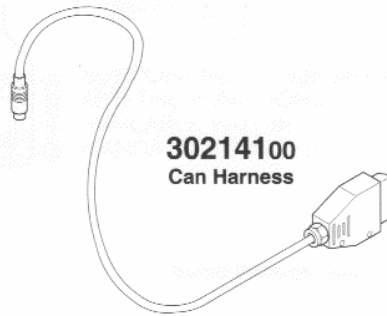
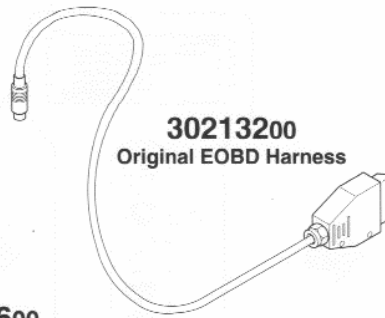
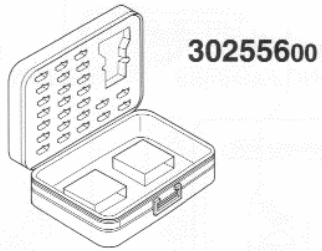
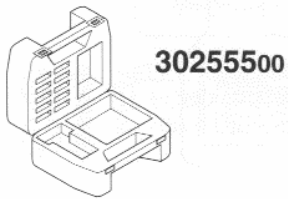
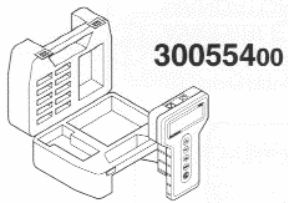
Press and hold **ok** to expand abbreviations.

Expanded abbreviation.

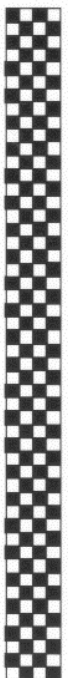
Press **ok** to return to 'Select Mode' menu.



Spares



Whilst every care has been taken to ensure the accuracy of the information contained in these instructions, no liability can be accepted by Sykes-Pickavant for any errors that may have occurred during their preparation. Sykes-Pickavant are constantly seeking ways to improve the specification and design of their products and alterations take place continually.





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