

# INSTRUCTIONS

## Throttle Potentiometer

### Please Read These First

These instructions are intended as a guide only and are not a substitute for a workshop manual. The fitter must have a degree of mechanical competence. If you are in any doubt as to your ability to fit the part, do not undertake the job.

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Contact technical sales on

**01527 835555**

[www.fpuk.co.uk](http://www.fpuk.co.uk)

## Throttle Potentiometer

For FPUK Part Number TP024 see overleaf for detailed instructions.

### Removing the old sensor.

1. Locate the sensor.

It will be located on the side of the throttle body.

2. Disconnect the battery.
3. Disconnect the sensor, checking the wiring and plug for damage or corrosion.

### Note

Fuel Parts UK carry a range of replacement EMS connector plugs, contact the technical sales team on (01527) 835555.

4. Unscrew the sensor and check the mounting surface condition.

### Hint

It is advisable to clean the throttle body to remove any carbon or oil deposits, pay particular attention to the area around the edges of the throttle plate. Some manufacturers use a special coating to prevent the build-up of these deposits. If this is so, do not use solvents to clean the throttle body. Consult your vehicle service manual for further information.

### Fitting the new sensor.

1. Fit the new sensor, taking care to locate the throttle spindle correctly into the throttle potentiometer. Screw the new sensor onto the throttle body or housing using the original mounting points.
2. Reconnect the wiring plug.
3. Reconnect the battery.

### WARNING

The potentiometer may be adjustable. If so, in conjunction with the throttle base idle setting it is crucial to the operation of the engine management system. You will need to refer to the vehicle's service manual for specific information. Failure to do this may result in an incorrect fault diagnostic code.

### WARNING

Fully check the throttle operation, both opening and closing before starting the car. Ensure that the throttle linkage is free of any obstructions.

Following the procedure outlined in your vehicle's service manual clear any fault codes that may have been set (you may need a fault code reader).

### Note

Failure to do this may cause the on-board computer to register a fault and stay in "limp home" mode which may damage the catalytic converter or other emission related equipment.

## FPUK TP024

Direct replacement  
Throttle Potentiometer kit.

Ford Sierra / Granada  
1985-1991 2 litre SOHC / DOHC

Replaces Finis Codes:  
6138398 & 6854777

Replaces O.E. Part Nos:  
85TF9B989AB & 85TF9B989BA

### READ ALL INSTRUCTIONS THOROUGHLY BEFORE INSTALLATION

1. Disconnect the battery.
2. Remove the original sensor from the vehicle by firstly disconnecting it from the vehicle's wiring harness. Secondly, remove the two bolts that secure it to the throttle body.
3. Cut the original sensor from it's wiring harness to within 15mm of the sensor's body. The plug will be reused with the new sensor body.
4. Remove 5mm of insulation from the ends of the three coloured wires on the original sensor's wiring harness.
5. Cut the three coloured wires on the new sensor to a length of 70mm from the sensor body and remove 5mm of insulation from the ends of these wires.
6. Slide the sleeve provided onto the new sensor harness. This sleeving is to be used to just restrain the three wires as they come out of the sensor and NOT to cover the crimp connectors.
7. Using the crimp connectors provided, join the new sensor harness to the original sensor harness, matching the wire colours. (Black to black, orange to orange and green to green).
8. Apply heat to shrink the tubing on each crimp using a heatgun or naked flame, until it shrinks and weather-seals the connector.

**DO NOT ALLOW A NAKED FLAME TO  
COME INTO CONTACT WITH THE WIRE  
INSULATION AND DO NOT USE A NAKED  
FLAME WITHIN THE VEHICLE'S ENGINE  
BAY.**

9. Mount the new sensor onto the throttle body in the same place as the original item with the smooth face of the sensor facing away from the throttle body.
10. Using the two new bolts and washers provided and the original clamp plate, secure the sensor to the throttle body using the original mounting holes.
11. Reconnect the sensor plug into the vehicle's wiring harness.
12. Connect a voltmeter onto the Black (Earth) and Green (Output) wires of the Throttle Potentiometer. With the ignition on but with the engine not running and the throttle at the idle position. Turn the sensor so that the output voltage of the sensor is 0.5 Volts  $\pm 0.05$ . Tighten the mounting screws and then re-check the voltage. Hold the throttle fully open and the output voltage should be at least 4.3 Volts.

### Kit Contents

Part No.	Description	Qty
9990295500	Throttle Position Sensor + sleeve	1
6469501800	M4 x 28mm bolt + captive washer	2
5551003400	M4 plain washer	2
9990296600	Nylon crimp splice connector	3

### Throttle Potentiometer Wire Colours

Black	- Earth
Orange	- 5 Volt (Reference)
Green	- Output