

Citroen and Peugeot

Reset Adaptions

The purpose of the Reset Adaptions function is to reset the base values stored in the CM's memory to a zero state. These base values vary according to the age of the engine and the purpose of them is to maintain a perfectly adjusted engine system. After a reset the CM will re-learn the values, either automatically or by the technician performing a number of steps.

The function should be used when important components have been replaced. If the base values are not reset the engine will experience stalling and hesitation problems.

The process for Reset Adaptions varies from CM to CM. The technician may have to go through several steps to successfully complete the reset and re-learn procedure. On systems which require a diagnostic command the scan tool will attempt to guide the technician through these steps, but due to battery voltage dips during engine cranking the scan tool may reset before a procedure has been completed.

Below is a guide for the technician detailing the procedures for each individual CM.

Bosch EDC16

This function is used when one of the following parts have been replaced:

- EGR Valve
- Butterfly double doser (EGR Butterfly + Intake air Heater Butterfly) assembly
- Replacement of the engine management CM

Procedure:

1. Before carrying out this command the following conditions must be met:
 - Engine off for 10 minutes
 - Engine cold
2. Scan tool sends the command to reset.

Citroen and Peugeot

Bosch MP7.2 / Bosch MP7.3

This is a manual procedure. There is no need to plug the scan tool in to perform the initialisation.

After the following operations the injection CM loses it's base values:

- Disconnection or replacement of the CM
- Disconnection of the battery.
- Down-loading of the control unit.
- Re-configuration of the CM

The base values relate to the following components:

- Oxygen Sensor
- Idle Regulation Stepper Motor
- Throttle Potentiometer
- Knock Sensor

Procedure:

1. Switch off the ignition.
2. Turn on the ignition for 10 seconds (without starting engine, ignition position II).
3. Start the engine (if the engine stalls start the operation again).
4. Carry out a road test of at least 3 miles.
5. Switch off the ignition.
6. Switch on the ignition (position II).
7. Read the fault codes and clear any codes present.

Bosch M7.4.4

This procedure must be carried out when one of the following components is replaced:

- Injector(s)
- Fuel Pump

Procedure:

1. Scan tool sends the command to reset.
2. Switch ignition off for at least 20 seconds.
3. Start the engine and run at idle until the fans cut-in (Air conditioning must be off).

Bosch ME7.4.4 / Magneti Marelli 5NP

This procedure must be carried out when one of the following components is replaced:

- Injector(s)
- Fuel Pump

Procedure:

1. Scan tool sends the command to reset.
2. Motorised Throttle Learning.
 - Switch off the ignition
 - Turn on the ignition for at least 10 seconds. Do not press the throttle during these 10 seconds.
3. Accelerator Pedal Position Learning.
 - Press the accelerator pedal fully
 - Switch off the ignition for 20 seconds. Do not release the accelerator pedal during these 10 seconds

Bosch ME7.4.6

This procedure must be carried out when one of the following components is replaced.

- Injector(s)
- Fuel Pump

Procedure:

1. Scan tool sends the command to reset.
2. Throttle Learning:
 - Ensure engine coolant temperature is between 5°C and 100°C
 - Ensure Air Temperature is higher than 5°C
 - Do not press the accelerator pedal
 - Switch on the ignition, wait for 30 seconds
 - Switch off the ignition, wait for 30 seconds
3. Accelerator Pedal Position Learning:
 - Switch on the ignition and press the accelerator down fully
 - Return to the foot-off position
 - Start the engine without accelerating
4. Engine Mixture Learning:
 - This must be carried out with the engine warm (above 80°C)
 - Undertake an urban drive of 5km
5. Engine Ageing Learning:
 - Start the engine and run at idle with the engine warm (above 80°C) for at least 5 minutes

Citroen and Peugeot

Sagem S2000 / Sagem S2000 PM1 / Sirius 81

Procedure:

1. Switch the ignition off and on.
2. Scan tool sends the command to reset.

Magneti Marelli 48P

Procedure:

1. Switch the ignition off and on.
2. Scan tool sends the command to reset.
3. Ensure ignition on and engine stopped.
4. Ensure accelerator pedal is not pressed.
5. Wait for 5 seconds.
6. Press the accelerator pedal fully.
7. Wait for 5 seconds.
8. Release the accelerator pedal.

Magneti Marelli 4MP2 Engine Code RFN (2.0i)

Procedure:

IMPORTANT: Do not start the engine for 10 minutes before carrying out this operation.

- The engine coolant temperature must be below 30°C
 - The air conditioning must be set to off
1. Scan tool sends the command to reset.
 2. Switch off the ignition to allow the CM to reset.
 3. Wait for 15 seconds.
 4. Switch on the ignition and listen for the EGR Valve clicking.
 5. Wait for 15 seconds.
 6. If the EGR Valve does not click the procedure must be restarted.
 7. Turn the starter motor over in order to turn the engine flywheel.
 8. Switch off the ignition to store the new values.
 9. Wait for 12 minutes while the CM powers down.
 10. Switch on the ignition.
 11. Wait for 15 seconds.
 12. Start the engine.
 13. Run the engine at idle until the fans cut-in (Air conditioning must be off).

14. Before returning the vehicle to the customer a test drive should be undertaken during which time an injection cut-off should be triggered. This is achieved by driving the vehicle in 3rd, 4th or 5th gear and sharply releasing the accelerator pedal without braking.

Magneti Marelli 4MP2 Engine Code 3FZ (2.2i)

Procedure:

1. Switch the ignition off then on.
2. Scan tool sends the command to reset.
3. Switch the ignition off then on again.
4. Wait for 10 seconds.
5. Start the engine.
6. Run the engine at idle until the fans cut-in (Air conditioning must be off).
7. Switch off the ignition to store the new values.
8. Wait for 12 minutes while the CM powers down
9. Switch on the ignition.
10. Wait for 15 seconds
11. Start the engine.
12. Before returning the vehicle to the customer a test drive should be undertaken during which time an injection cut-off should be triggered. This is achieved by driving the vehicle in 3rd, 4th or 5th gear and sharply releasing the accelerator pedal without braking.

Magneti Marelli 6LP Engine Code RFN (2.0i)

Procedure:

IMPORTANT: Do not start the engine for 10 minutes before carrying out this operation.

- The engine coolant temperature must be below 30°C
 - The air conditioning must be set to off
1. Scan tool sends the command to reset.
 2. Switch off the ignition to allow the CM to reset.
 3. Wait for 15 seconds.
 4. Switch on the ignition and listen for the EGR Valve clicking.
 5. Wait for 15 seconds.
 6. If the EGR Valve does not click the procedure must be restarted.
 7. Switch off the ignition to store the new values.

Citroen and Peugeot

8. Wait for 15 minutes while the CM powers down.
9. Switch on the ignition.
10. Wait for 15 seconds.
11. Start the engine.
12. Run the engine at idle until the fans cut-in (Air conditioning must be off).
13. Before returning the vehicle to the customer a test drive should be undertaken during which time an injection cut-off should be triggered. This is achieved by driving the vehicle in 3rd, 4th or 5th gear and sharply releasing the accelerator pedal without braking.

Magneti Marelli 6LP Engine Codes KFU / RFK / 3FZ

Procedure:

IMPORTANT: Do not start the engine for 10 minutes before carrying out this operation

- The engine coolant temperature must be below 30°C
 - The air conditioning must be set to
1. Switch the ignition off then on.
 2. Scan tool sends the command to reset.
 3. Switch the ignition off then on again.
 4. Wait for 10 seconds.
 5. Start the engine.
 6. Run the engine at idle until the fans cut-in (Air conditioning must be off).
 7. Switch off the ignition to store the new values.
 8. Wait for 12 minutes while the CM powers down.
 9. Switch on the ignition.
 10. Wait for 15 seconds
 11. Start the engine.
 12. Before returning the vehicle to the customer a test drive should be undertaken during which time an injection cut-off should be triggered. This is achieved by driving the vehicle in 3rd, 4th or 5th gear and sharply releasing the accelerator pedal without braking.