

**I****WITHOUT TAD 99 TESTER****HÖÖK UP**

- Connect a switched jumper (harness P.N. 91.42) to pin (1) of connector M720 (wires 4A, 17) (2 pin green connector). The other side of the switch should be connected to a good ground.

**READING**

The different defect codes will be identified by the flashing of the CHECK ENGINE indicator L33 on the instrument cluster.

- First set of flashes (blinks) = the tens.
- The second set of flashes (blinks) = the units.

**II****TEST PROCEDURE**

- Turn key ON
- Depress switch for 3 seconds (indicator ON).
- When the switch is released :
  - A - The CHECK ENGINE indicator will blink once = 1 (Tens).
  - B - The CHECK ENGINE indicator remains OFF for 1.5 seconds.
  - C - The CHECK ENGINE indicator blinks Twice = 2 units.
    - Thus = 12 is the code displayed.
    - Code 12 = beginning of test.
- Wait for CHECK ENGINE indicator to come ON.

**III**

- Depress switch for 3 seconds (indicator ON).
- When the switch is released :
  - A - Indicator blinks 5 times (for example) 5 (Tens).
  - B - Indicator OFF for 1,5 seconds.
  - C - Indicator blinks 4 times (for example) 4 (units).
- 54 = defect N° 54 (see identification of the coded defects).
- Wait for the CHECK ENGINE indicator to come ON.

**IV**

- Proceed to a new test as before.
- If several defects are detected, they will be displayed after each TEST.
- The 11 code indicates that all the detected defects have been reported.

**Code 11 = end of TEST.**

- After code 11, it is possible to run a new TEST (see block II).

For the definition of all the defect codes and the repairs to correct them, refer to the corresponding chapters.

Erasing the memorized defects (to be done after performing repairs).

- Turn key ON
- Perform a test up to code 11
- Depress the switch for more than 10 seconds
  - The indicator should be ON.

### SELF TEST OF THE MOTRONIC SYSTEM

The different malfunctions which can be detected during the SELF TEST (start mode) or during normal operation, are identified by coded signals during the TEST sequence (see corresponding chapter).

### IDENTIFICATION OF THE CODED SIGNALS

\* Major fault (causes CHECK ENGINE indicator to come ON)

DEFECT CODE			DEFECTIVE COMPONENT	CHECKS
500001	515001	517001		
11	11	11	End of Test Sequence	
12	12	12	Beginning of Test Sequence	
13	13	13	Air Temperature Sensor	Check the defective components and the electrical circuit (see ECU terminal checks)
14*	14*	14*	Injection NTC Sensor	
21*	21*	21*	Throttle Switch (idle position)	
		22	Idle Regulation Electrovalve	
33*	33*	33*	Air Flow Sensor	
34*	34*	34*	Canister Purge Electrovalve	
35	35	35	Throttle Switch Unit (full load position)	
	41	41	Engine RPM Sensor	
42*	42*	42*	Injectors	
15*	15*	15*	Fuel Pump(s) Relay	
31	31	31	Self-correction richness regulation function	Air leak at intake Exhaust leak
32	32	32		
51*	51*	51*		Check the Lambda sensor electrical circuit try again with a new Lambda sensor
52*	52*	52*		Try again with a new ECU
53	53	53	Battery voltage	Charging system
54*	54*	54*	ECU	Try again with a new ECU