

ELECTRONIC EGR VALVE (SINGLE SOLENOID TYPE)

TOOLS REQUIRED:

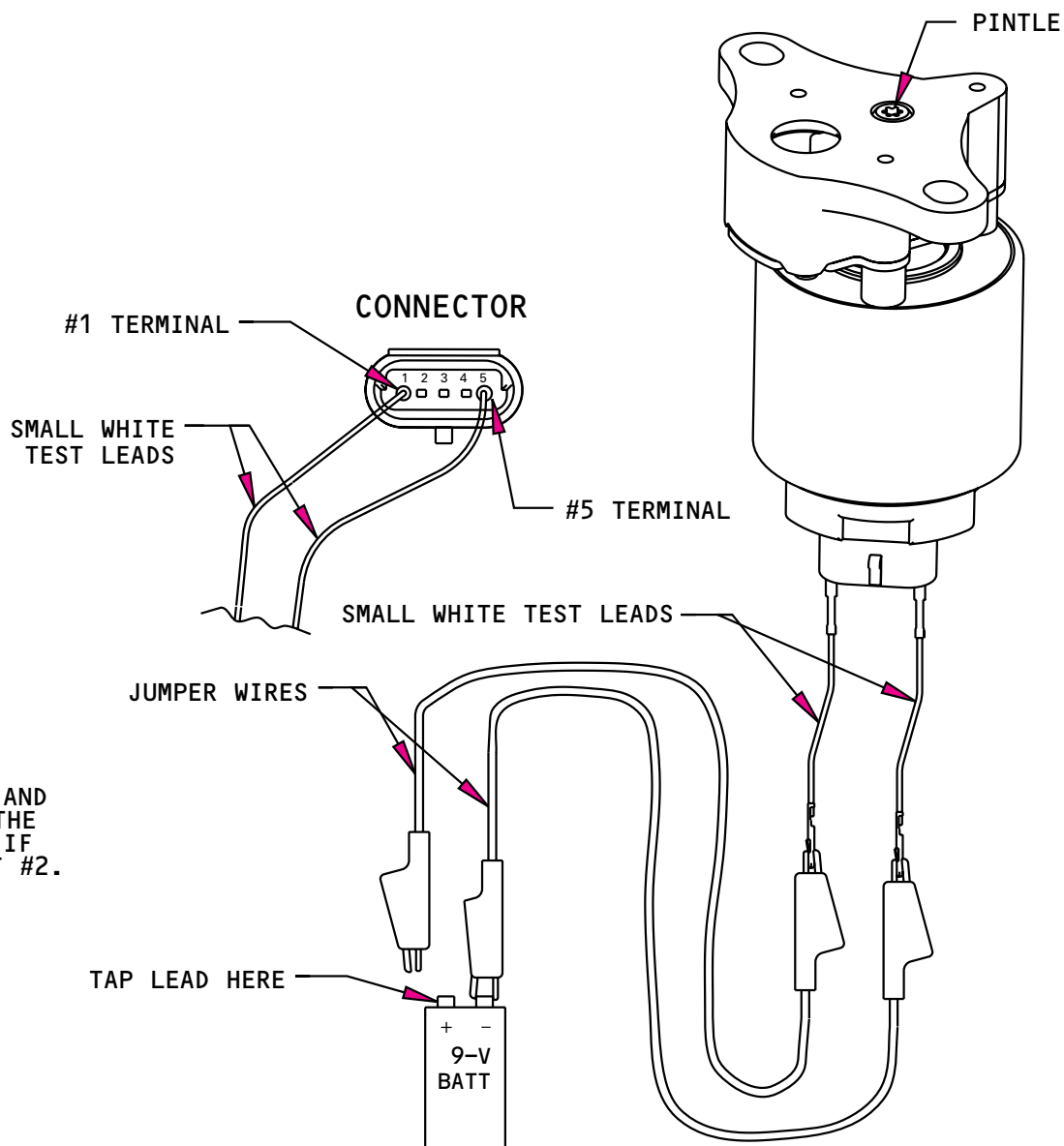
- SENSOR TESTER
- 9-VOLT ALKALINE BATTERY
- 2 JUMPER WIRES
- 2 SMALL WHITE TEST LEADS (ROUND OR FLAT)
- SMALL SCREWDRIVER

2 TEST PROCEDURES REQUIRED

TEST PROCEDURE #1

1. HOLDING EGR VALVE UPSIDE DOWN (BASE END UP-CONNECTOR END DOWN), CONNECT A JUMPER WIRE FROM THE 9-VOLT BATTERY NEGATIVE TERMINAL TO THE MALE END OF A SMALL WHITE TEST LEAD. CONNECT THE FEMALE END OF THE SMALL WHITE TEST LEAD TO THE #5 TERMINAL ON THE EGR VALVE AS SHOWN IN DIAGRAM.
2. CONNECT ANOTHER JUMPER WIRE TO THE MALE END OF A SMALL WHITE TEST LEAD. CONNECT THE FEMALE END OF THE SMALL WHITE TEST LEAD TO THE #1 TERMINAL ON THE EGR VALVE AS SHOWN IN DIAGRAM AND TAP THE OTHER END OF THE JUMPER WIRE AGAINST THE 9-VOLT BATTERY POSITIVE TERMINAL.
3. AS YOU TAP THE JUMPER LEAD AGAINST THE POSITIVE BATTERY TERMINAL, WATCH FOR THE PINTLE (PLUNGER) OF THE VALVE TO MOVE UP AND DOWN. IF IT DOES NOT MOVE UP AND DOWN, THE VALVE IS FAULTY AND SHOULD BE REPLACED. IF IT DOES MOVE UP AND DOWN, PROCEED TO TEST #2.

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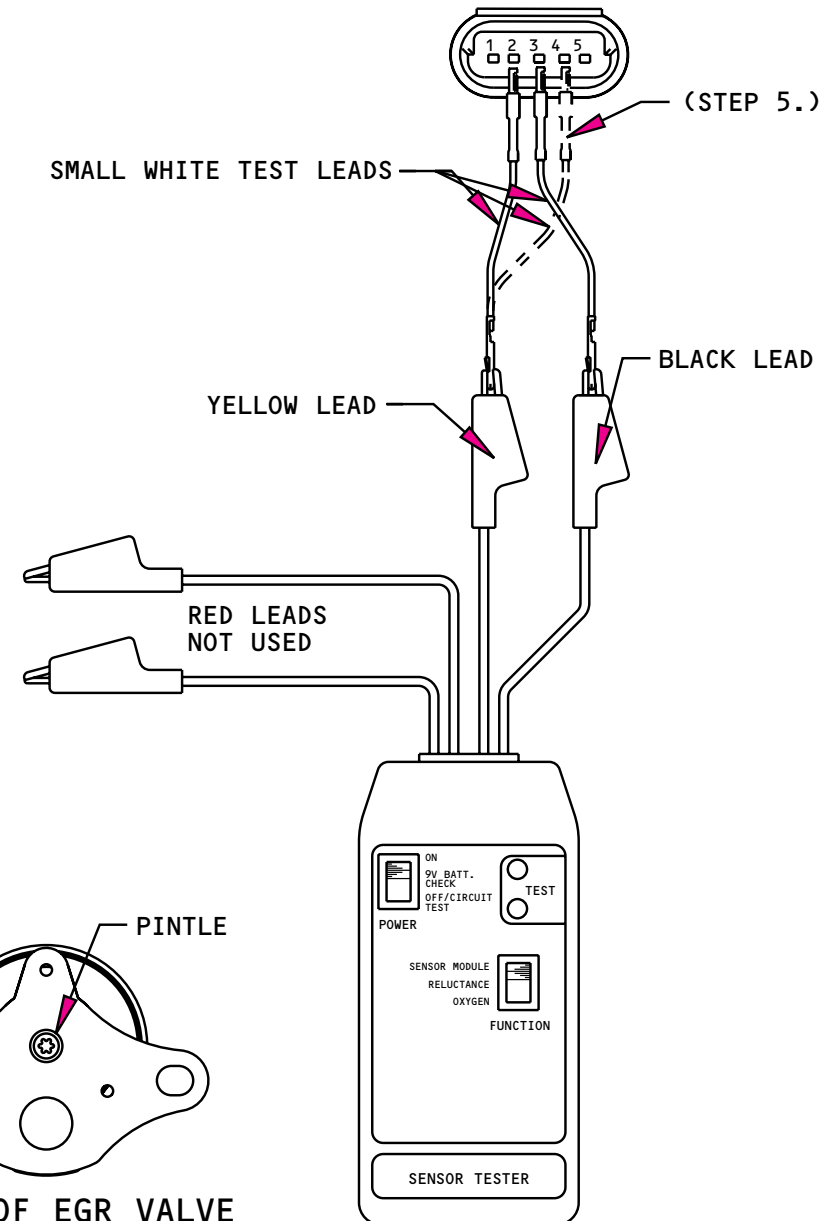


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(CONTINUED)

TEST PROCEDURE #2

1. USING THE SENSOR TESTER, TURN TESTER ON AND SET IT ON THE "SENSOR MODULE" SETTING.
2. HOLDING EGR VALVE UPSIDE DOWN, CONNECT YELLOW SENSOR TESTER LEAD TO MALE END OF SMALL WHITE TEST LEAD. CONNECT THE FEMALE END OF THE SMALL WHITE TEST LEAD TO #2 TERMINAL OF EGR VALVE AS SHOWN IN DIAGRAM.
3. CONNECT BLACK SENSOR TESTER LEAD TO THE MALE END OF A SMALL WHITE TEST LEAD. CONNECT FEMALE END OF SMALL TEST LEAD TO #3 TERMINAL ON THE EGR VALVE AS SHOWN IN DIAGRAM.
4. WATCHING THE TESTER LIGHT(S), USE A SMALL SCREWDRIVER TO SLOWLY PUSH THE PINTLE IN AS FAR AS IT WILL GO. THEN SLOWLY RELEASE THE PINTLE. THE LIGHT(S) SHOULD CHANGE BRIGHTNESS WITHOUT FLICKERING AS YOU PERFORM THE TEST. IF THE LIGHT(S) FLICKER OR DO NOT CHANGE BRIGHTNESS, THE EGR VALVE IS FAULTY AND SHOULD BE REPLACED. YOU MUST MOVE PINTLE SLOWLY TO PERFORM THE TEST CORRECTLY. IT SHOULD TAKE 5-10 SECONDS TO PUSH THE PINTLE IN AND 5-10 SECONDS TO RELEASE IT.
5. MOVE THE SMALL WHITE TEST LEAD CONNECTED TO THE YELLOW SENSOR TESTER LEAD FROM TERMINAL #2 TO TERMINAL #4 ON THE EGR VALVE.
6. REPEAT STEP #4.
7. IF EGR VALVE IS NOT FAULTY, IT IS RECOMMENDED THAT YOU THOROUGHLY CLEAN PINTLE AREA WITH CARB CLEANER BEFORE REINSTALLING VALVE AND CHECK EGR VALVE PASSAGE IN THE INTAKE MANIFOLD AND CLEAR BLOCKAGE IF ANY IS PRESENT.



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TEST SHEET EGR1A