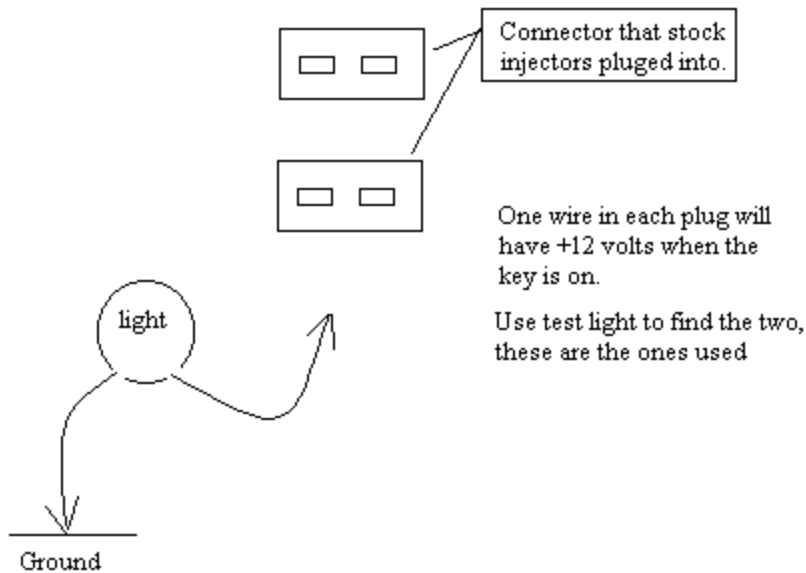


INSTALLING THE TB-PRO2

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1. Unplug the stock injectors. Install one of the quick connectors on each of the two +12 volt wires going into the stock injector harness plug. This is the +12 volts from the stock resistors to the injectors, these will be used in step #22.

How to locate the +12 volts wires to the injectors



2. Disconnect battery.
3. Remove passenger side kick panel, then remove stock computer by taking out screws and unplugging.
4. Remove glove box by taking out screws at bottom.
5. Pull the grommet in the engine compartment (this is the one the O2 wire passes thru..) located in the firewall on the passenger side out of the firewall. This is where the new main wiring harness will pass thru.

INSTALLING THE TB-PRO2

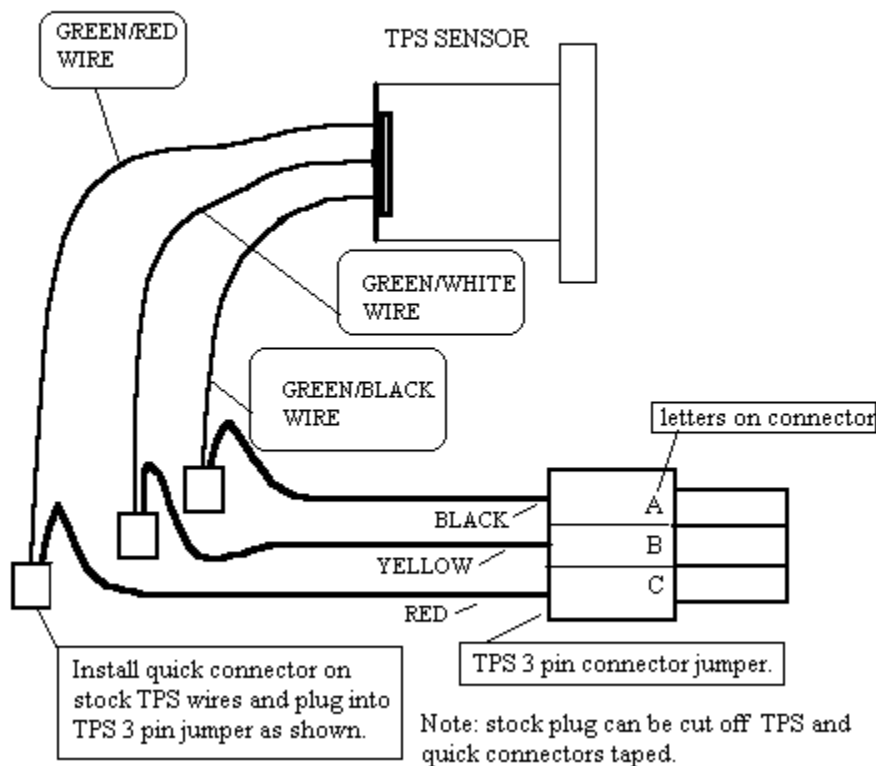
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6. Insert a metal rod thru the open hole, from the engine side until you see it near the glove box opening.
7. We have found that a good way to get the harness thru the firewall is to layout the harness and tape with masking tape, the connectors and connector pins (best to leave the small plastic bag on the pins to protect them) to the wire harness then place a plastic bag over the harness end to be pulled thru, tape the bag tight and tape a pull string to the bag/ harness. Then tape main harness pull string to the metal rod inside car, and carefully pull rod and harness thru firewall into engine compartment. (Note some have removed the fan box to make this easy.)
8. Remove harness pull string and cover wrap.
9. Harness will run along top of firewall from passenger side to driver side near brake booster, then forward to the injector and sensor connectors.
10. Install the three pin connectors on to main harness as follows:
 - (A) There is a set of red, black, and purple wires, these will go to the MAP sensor. The three pin connector is labeled A,B, and C. Insert the red wire in "C". Insert the black wire in "A". Insert the purple wire in "B". Then push the green seals into the connector and snap the cover shut.
 - (B) There is a set of red, black, and yellow wires, these will go to the TPS sensor. The three pin connector is labeled A,B, and C. Insert the red wire in "C". Insert the black wire in "A". Insert the yellow wire in "B". Then push the green seals into the connector and snap the cover shut.
11. Remove over the valve cover pipe .
12. Disconnect fuel line, fuel regulator line and remove the TB fuel rail by taking out the two screws that hold it down, Remove the regulator as it will be used with the new fuel rail.
13. Install regulator on new fuel rail.
14. Install the included seals that go under the injectors into the throttle body make sure they are seated , next install the new fuel rail with the new spacers between fuel rail and throttle body, using the new screws.
15. Connect fuel lines, also connect regulator vacuum line .

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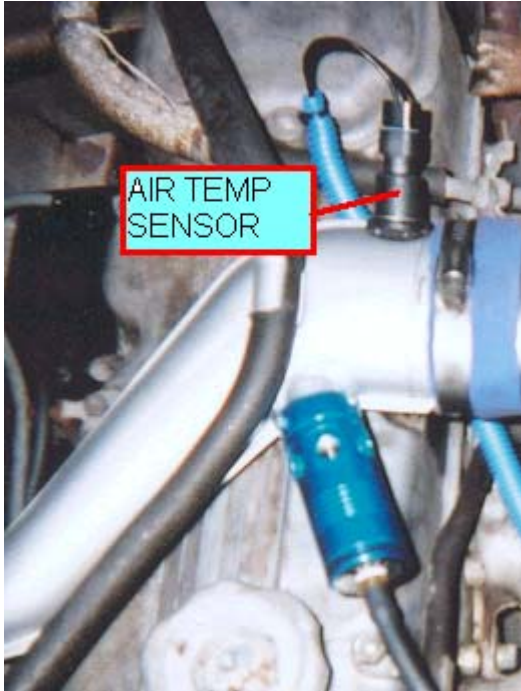
16. Install the new water temp sensor by unplugging and removing the stock sensor located on the manifold (at has two wires to it) and the new sensor (use sealer or Teflon tape) should screw right in.
17. Install new MAP sensor on fwd. side of driver side strut housing, using the self sticking Velcro included. Vacuum line goes to REAR one of the three lower ports on the TB . Use "T" if needed.
18. Install one of the quick connectors on each of the three wires coming out of the stock TPS sensor.
19. Plug the wires from the TPS 3 pin connector into the quick connectors you just installed as shown.



20. Install the new air temp sensor in the over the valve cover pipe by drilling a $\frac{3}{4}$ " size hole as shown (see picture next page) in front or back side of the pipe near the TB side of the pipe. Keep in mind clearance to hood. Place sensor in hole and install holding clip inside pipe. Note silicone sealer should be used under sensor.

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Note 83 model is shown others are similar.

21. Reinstall over the valve cover pipe.
22. Run the wires neatly to the sensors, use the wire cover as needed and plug in the main harness plugs to all the sensors and the new top. The two red wires connect to the quick connectors install in step #1 one to each wire.
23. Connect the orange and brown wires in the new harness as shown:
 - (a) Install Ignition adapter as shown The black and white wires from the Ignition adapter tie into the two wires from the distributor pickup using the quick connectors. Mount or Ty-rap Ignition adapter as needed.

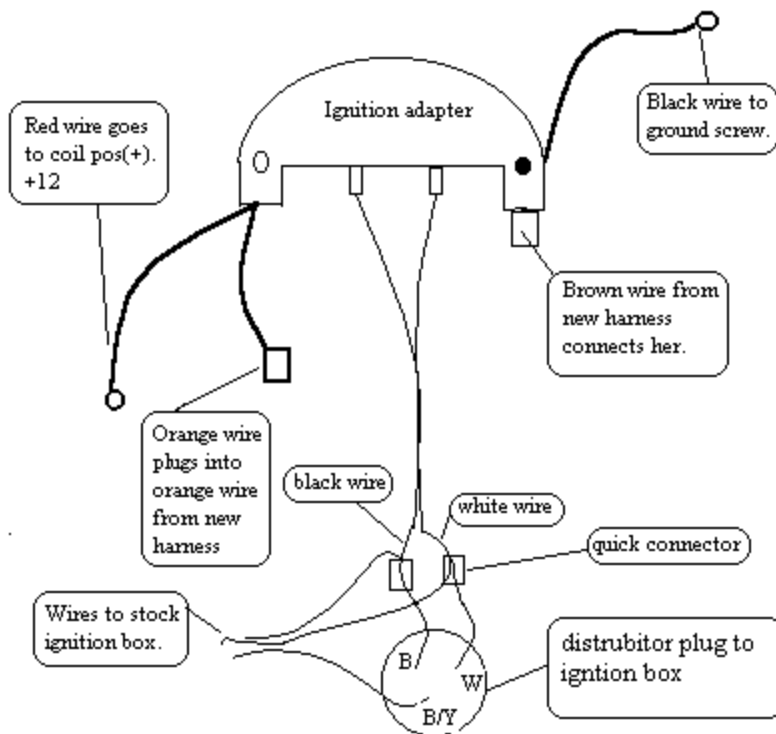


Note 83 model is shown others are similar. This picture shows the Ignition adapter (right) and Map sensor (left).

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IGNITION BOX CONNECTION POINTS



24. Install the wire cover and run the main harness wires neatly along the firewall, ty-rap all wires as needed .
25. The FC-1 controller is mounted in the glove box when done or some have mounted were the stock computer was.

26. Inside the wires that must be connected are:

These connections are made to the stock computer harness near the stock computer plug using one of the quick connectors to the wire ,except for (d). First connect the **ORANGE** wire from the filter to the **RED** wire from the new harness and connect the **BLACK** wire from the filter to the **BLACK** wire from the new harness. Use a Ty-rap to hold filter, then:

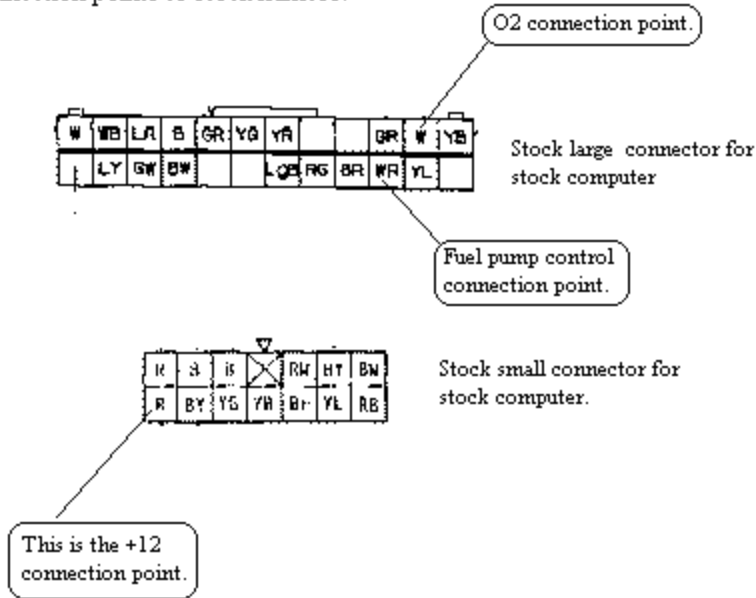
- (a) +12- The new wire color is **RED** from the filter and connects to the stock computer harness **RED** wire. (There are two red wires side by side on the old computer small connector use either one.)
- (b) fuel pump control -The new wire color is **YELLOW** and connects to the stock computer harness **WHITE/ RED** wire (large connector).

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- (c) O2 –The new wire color is BLUE . (connecting this is optional) if used connect to O2 sensor wire. This connect to the WHITE wire at the stock large connector pin 11, see drawing)
- (d) Main ground- The black wire from the filter with the ring lug at end, this grounded to the frame by using one of the old computer mounting holes and screw.

Connection points to stock harness.

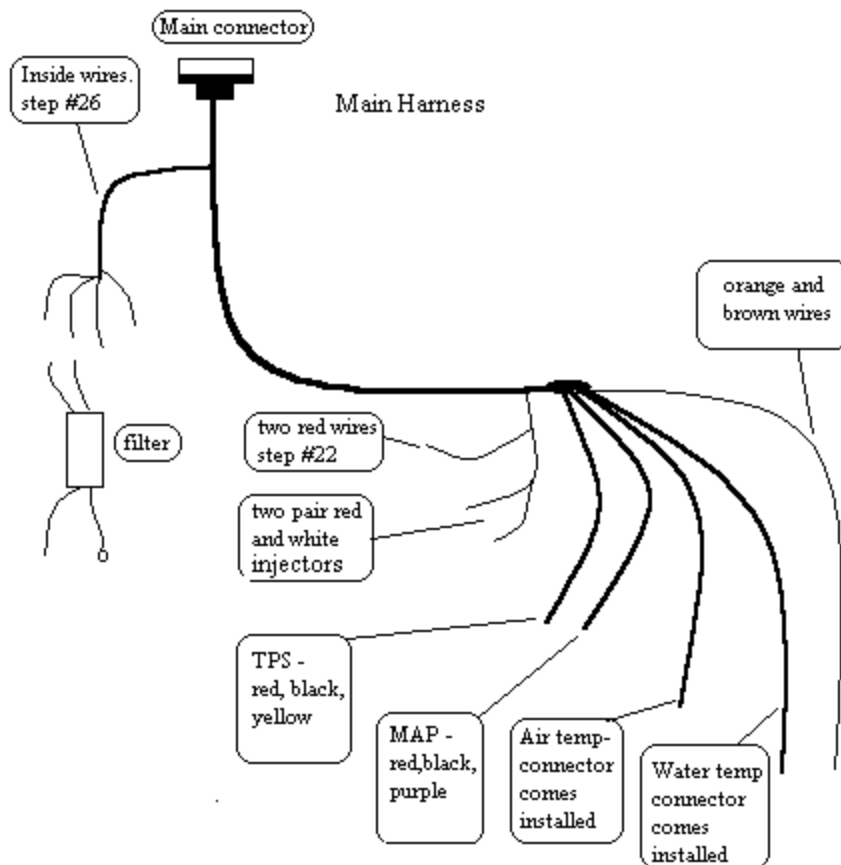


- 27. Reinstall glove box and bring main harness into glove box if mounting FC-1 in glove box. Be sure harness does not get pinched when closing.
- 28. Check over the system.
 - (a) Fuel lines connected and tight?
 - (b) Map sensor connected to correct port?
 - (c) All sensors and injectors plugged in?
- 29. Reconnect battery.
- 30. Plug main harness into FC-1 controller.

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31. Turn key to on (not start), you should hear the fuel pump run for two seconds. Turn key off. Repeat once.
32. Check for fuel leaks. DO NOT START IF THERE ARE LEAKS.
33. Start car, warm up and DRIVE!
34. The mass air can be removed from the air box (just plug any holes) or a cold air intake with filter installed.
35. Note: Warm-up and idle.
The stock idle air motor may be remove or left in place. The idle is now adjusted with the idle screw only and is set to give about 1000 rpm when warm. At the correct setting the engine should idle at a lower rpm when cold then come up to the 1000 rpm range as it warms up. The engine should be warmed up before driving.



For help please call 727-243-1396.