



999-281 Powercard

Installation Instructions

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Parts Inventory:

- JR Powercard (1)
- T-Taps (6)
- Velcro Mounting Strips
- Hard Vacuum Tubing (10')
- Vacuum Elbow (1)
- Vacuum T (1)
- 5/32 Vacuum Hose (6")

Installing your stock fuel pump

1. Your fuel system must now be returned to stock configuration. The high volume pump and metering jet must be removed and your stock fuel pump reinstalled. If you don't still have your instructions you can download a set from www.jacksonracing.com or call 800-235-6954 to have a set emailed or faxed to you.

Removing the original DFMM

1. Referring to your original instructions remove the Digital Fuel Management Module (DFMM) originally supplied in your JR Supercharger system. All wires must be reconnected to their original state. We strongly suggest soldering and shrink wrapping them back together.

Resetting Ignition Timing

1. On this issue you have two choices. Advance your timing back to the stock 10 degrees by either advancing your Crank Angle Sensor along the Jackson Racing bracket used in your original installation or remounting your Crank Angle Sensor back in its stock location.

NOTE: If you are running a JR BTC unit and your timing is set to stock already, you should turn the BTC knob to minimum once the JR Powercard is installed.

Installing Powercard

1. Locate Jackson Racing PowerCard, it will appear as a small black plastic box with 6 wires coming out of it. Using the Velcro provided, you will be attaching the Jackson

Racing PowerCard to the side of the factory Engine Computer Unit (ECU). The ECU is located directly above the brake/clutch pedals.

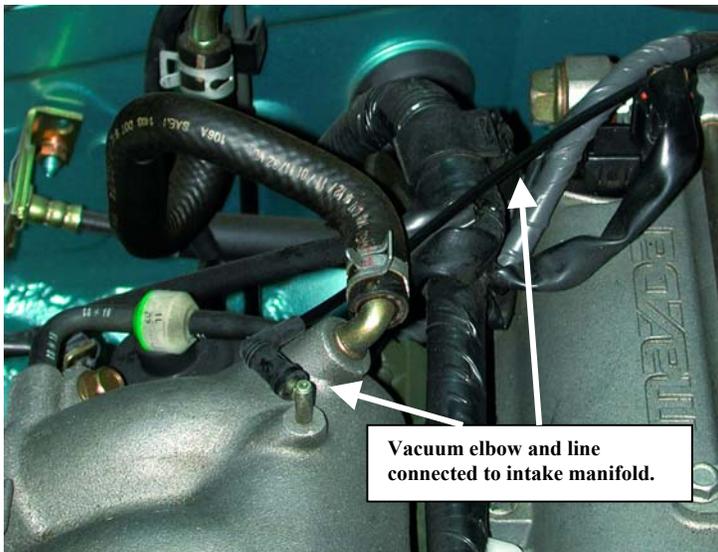
2. Locate the plug closest to the clutch/brake pedal. There is a White/Red wire on this plug that will serve as your 12volt power source. Clamp a T-Tap on this wire.
3. Locate the plug furthest from the clutch/brake pedals. It is home to the 5 remaining wires used for the Powercard installation. Find the Black/Blue wire which is your ground wire and clamp on a T-Tap. Next you will be locating the 4 injector wires. They are colored as follows: Yellow/Black, Violet/Green, Yellow/Red and a Yellow/Green. Clamp a T-Tap onto each of these 4 wires. Now plug the red wire from the Jackson Racing PowerCard into the White/Red wire. This will be your system 12v power. Plug the black wire from your Jackson Racing PowerCard into the Black/Blue wire. This will be your system ground. Plug the 3 grey wires and 1 blue wire into the 4 remaining injector wires. It doesn't matter in what order.

Vacuum Connection

1. You will need to route a hard plastic pipe from the intake manifold to the Jackson Racing PowerCard in the interior. To route the hard plastic vacuum pipe to the engine compartment, you will need a long narrow rod or screwdriver shaft approximately 24" long. On the driver side of the engine compartment you will find a rubber grommet where the main wiring harness goes through the firewall. From inside the engine compartment, carefully push your long tool through the grommet. Have someone watch from the interior so that you don't drive the tool through any vital parts other than insulation. Once through, you can tape the hard plastic vacuum pipe to the tool and carefully pull it back through the weather tight seal and your vacuum pipe tucked cleanly away under the dash.



2. Route the hard plastic pipe across the back of the engine and across the valve cover. Connect this hard plastic pipe to the vacuum fitting on the intake manifold with the small, 90-degree adapter hose. Connect the other end to the Jackson Racing PowerCard by sliding the hard plastic pipe into the silicone hose of the PowerCard.



3. If your Miata doesn't have a vacant vacuum fitting then disregard the elbow, you will need to T into an already used fitting. Locate an appropriate vacuum fitting on the intake manifold preferable on the top towards the firewall. Pull off the vacuum hose currently attached to it. Cut a 2" piece

of vacuum hose from the 6" supplied. Push this 2" piece on the vacuum fitting. Insert the T into the other end. On one end attach your displaced vacuum hose and on the other, another 2" piece of vacuum hose. Push the hard vacuum tube coming from the JR Powercard about an 1" inside the 2" piece of hose. Your vacuum connections are now complete.

4. Using the Hook and Loop material supplied with the kit, attach the PowerCard to the side of the ECU once the vacuum hose is connected.