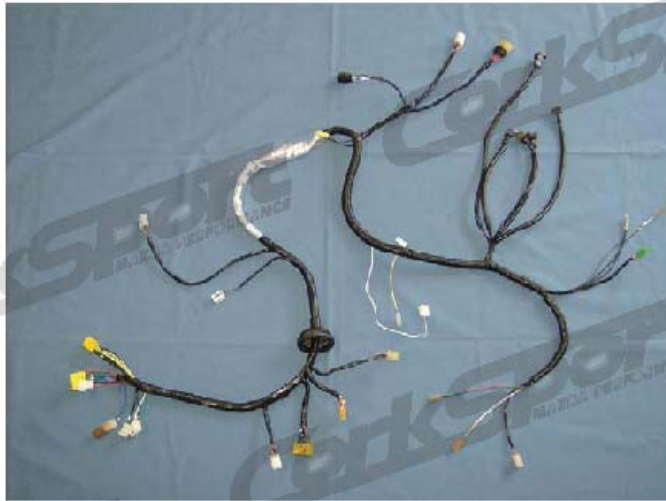




CorkSport 87-88 RX-7 Turbo II Wire Harness Install Instructions



Tools Required

- 10mm Wrench and Socket
- 12mm Wrench and Socket
- 3/8 Drive Ratchet
- Torque wrench
- Phillips Screw Driver
- Safety glasses
- Pliers
- Factory Service Manual

Contents

- 1 CorkSport Wire Harness
- 10 Page Installation Instructions

Note: Install instructions were written using an 88 RX-7 turbo swapped RX-7. These instructions were written as a guide only, please refer to a factory service manual for removal and installation of this product. Installation of this product will take around 3 hours.

Step 1: Disconnect negative battery terminal.

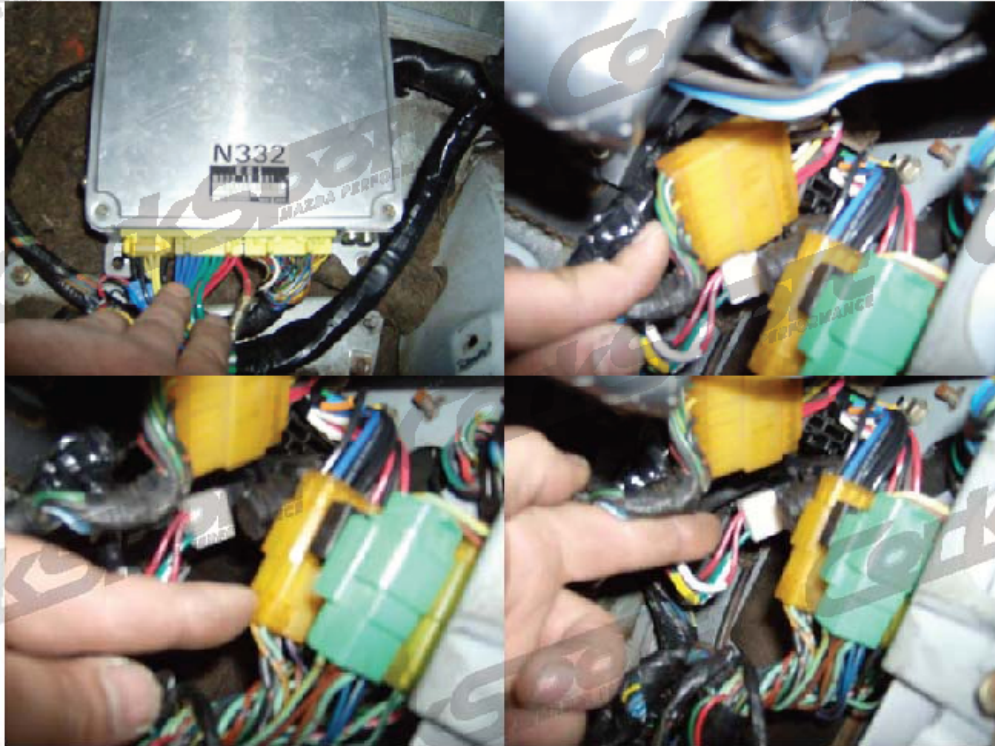
Step 2: from passenger side of vehicle, remove 6 phillips head screws from scuff plate and remove scuff plate.

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Step 3: Remove 3 plastic push clips from kick panel and remove kick panel.

Step 4: Pull back carpet to reveal metal ECU cover. Remove 2 10mm head nuts and 2 10mm head bolts from cover and remove cover.

Step 5: Disconnect 3 yellow plugs from ECU. From where kick panel was, disconnect 2 dash harness plugs (yellow/orange in color), knock control box plug (white in color), and atmospheric pressure sensor (white in color).



Step 6: From inside engine compartment, pull up charcoal canister from its bracket and set aside. Disconnect windshield wiper motor, sub zero motor, and cruise control if equipped.

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Step 7: Disconnect plugs from boost sensor, variable resistor, AFM, and solenoid valve (resistor pack).



Step 8: Disconnect hoses from top mount intercooler. Remove 4 12mm head bolts and remove top mount intercooler.

Step 9: Disconnect plugs for air supply valve, split air control valve, port air supply valve, O-2 sensor, bypass air control valve, water temperature switch, and air bypass valve.

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Step 10: Loosen 2 12mm head nuts from accelerator cable bracket and disconnect cable from throttle body. Set cable aside and out of the way.

Step 11: Disconnect vacuum hoses from intake manifold. There are 3 at the front side of the manifold and 2-3 on the back side of the manifold.

Step 12: remove 4 12mm nuts and 1 12mm bolt from upper intake to lower intake manifold connection. Loosen 1 12mm head nut at intake air inlet to bracket. Disconnect TPS, intake air temp sensor, and knock sensor.

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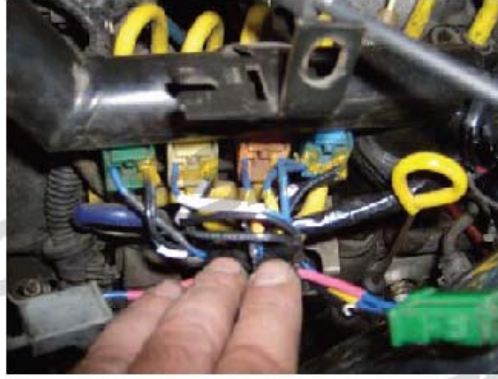
Step 13: Disconnect water hose to BAC valve. Disconnect the oil metering pump rod from throttle body. Lift intake manifold and disconnect lower water hose to throttle body. Remove intake manifold out of the way.

Step 14: Remove 3 12mm head bolts from intercooler bracket to block and lift point bracket and remove bracket.

Step 15: Remove 2 10mm head bolts from oil filler neck, disconnect vent hose from filler neck and remove neck.

Step 16: Disconnect the 4-5 colored plugs from their solenoids.

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Step 17: Remove 2 12 mm head bolts from tubing rack to block.

Step 18: Disconnect wires from 4 fuel injectors, water thermosensor, and coolant temp sensor.

Step 19: Note the direction that all the wires are located, and carefully lift up on tubing rack and remove wires from under the rack and over towards the passenger side of the vehicle.

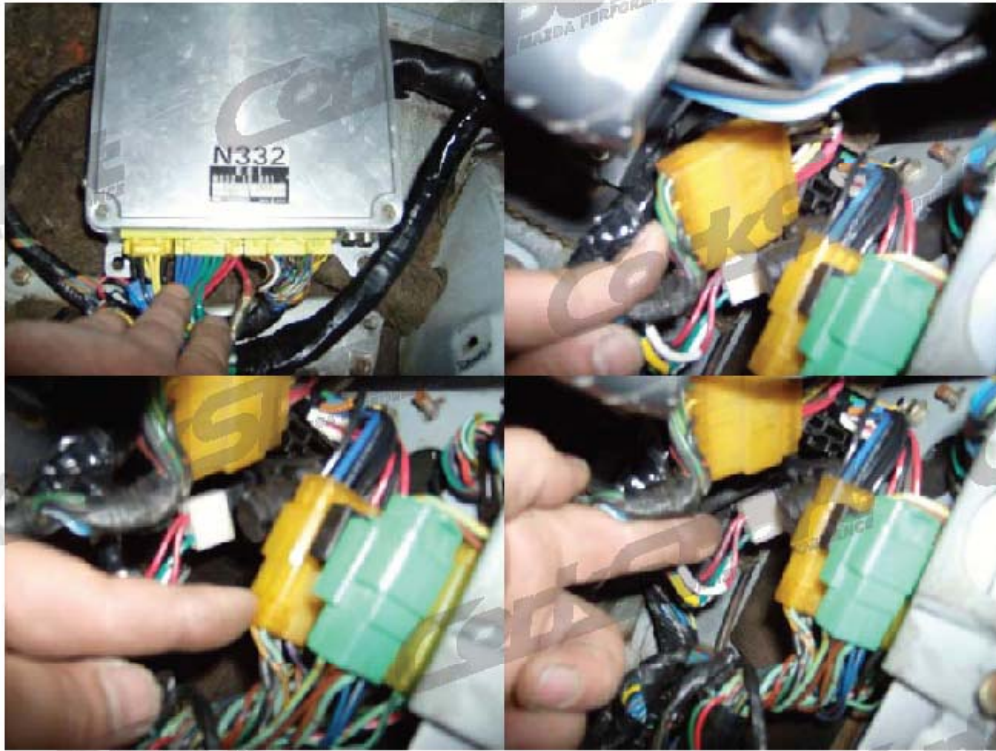
Step 20: Note the location of the wires routed along the passenger side strut tower. Gently pull the firewall grommet from the fire wall and carefully pull harness out of firewall. Remove harness completely from vehicle.

NOTE: You may have to go inside the vehicle several times to help push the harness out of the firewall.

Step 21: Insert the CorkSport wire harness through hole in firewall and run it in the same location that the factory harness was located, into the vehicles passenger

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compartment. Once harness is located in its correct position, reconnect the ECU plugs, the dash harness plugs, the atmospheric pressure sensor plug, and the knock control box plug.



Step 22: From the engine compartment, insert firewall grommet into firewall. Reconnect windshield wiper motor, sub zero motor and cruise control if equipped. Replace charcoal canister into bracket.

Step 23: Run the harness in the same location that factory harness was run along the strut tower and over to the engine.

Step 24: Reconnect plugs at boost sensor, variable resistor, AFM, and solenoid valve.

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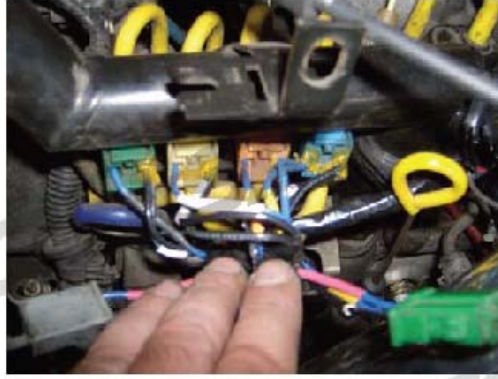


Step 25: Run harness along engine block as factory harness was located, lift tubing rack and position wires to the fuel injectors and water thermosensor, coolant temperature sensor, as well as air supply valve, and air bypass valve.



Step 26: Reconnect the colored solenoid plugs to their matching solenoid. Replace the 2 original 12mm head bolts into the tubing rack to block.

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Step 27: Replace the oil filler neck with its 2 original 10mm head bolts. Replace the intercooler bracket with its 3 12mm head bolts to the block and lift point bracket.

Step 28: Reposition intake manifold and reconnect water hose to throttle body. Reinstall 4 original 12mm head nuts and 12mm head bolt and torque to 14-19ft/lbs.

Step 29: Reconnect TPS, air intake temperature sensor and knock sensor.



Step 30: Reconnect the 3 vacuum hoses at the front of the manifold as well as the 2-3 at the rear of the manifold. Reconnect the oil metering pump rod.

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Step 31: Reconnect the air supply valve and the air bypass valve at the rear of the manifold. Reconnect the split air valve, the port air valve, the water temp switch, BAC valve, as well as the water hose to the BAC, and the O-2 sensor.



Step 32: Replace top mount intercooler with original 4 12mm head bolts. Reconnect all hoses and their clamps.

Step 33: Reconnect negative battery terminal, check coolant level, and start vehicle to check operation. Once vehicle has warmed up to normal operating temperature, shut off vehicle and check TPS adjust as directed by the factory service manual.

Step 34: After all adjustments that are need have been made, replace ECU cover with original 2 10mm head bolts and 2 10mm head nuts. Replace carpet, then kick panel with its plastic push pins, then scuff plate with its original 6 phillips head screws.

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