

1987-91 RX-7 Turbo REV TII Performance Exhaust System

Part No. 16425

Important Notes:

1. A fuel cut controller **MUST** be used with this exhaust system to prevent the engine management system from shutting down fuel delivery to the number two rotor. Failure to use a fuel-cut controller may cause engine failure. Racing Beat offers a fuel controller PN11570 (1987-88) or PN 11571 (1989-91).

2. Before attempting to remove the converter assembly, be sure the engine has not been run for approximately 4 hours. The converter retains heat for a considerable length of time after the engine has been shutdown. Removal of a "hot" converter may lead to the nuts seizing on the studs.

Prior to installation, have on hand a small amount of light penetrating oil to apply to all studs and nuts before disassembly. We recommend using a "never-seize" material on all threaded fasteners during installation. Removal of the pipe from the turbo outlet can be awkward and time consuming. We recommend having a 14mm flex socket and a 12-inch extension at hand to simplify this job.

Installation

1. Raise the car and place it on jack stands. **DO NOT** work under a car supported only by a jack.
2. Remove the "split air tube" (the small tube that enters the side of the main catalytic converter) from the intake manifold. Cover the hole with the cover plate supplied in the hardware kit, using gasket sealing compound to ensure a tight fit.
3. Carefully disconnect the oxygen sensor wire at the connector beside the intake manifold. Remove the catalytic converters, "Y" pipe, and stock mufflers. Silicone lubricating spray may be used to loosen the rubber hanger gaskets if needed. Be sure to disconnect the ground strap from the left rear muffler flange before removing this muffler.
4. Carefully remove the oxygen sensor from the front catalytic converter and install it in the new front down pipe. Do not let any "never-seize" material touch the inner, "sensor" end of the oxygen sensor, this will interfere with the sensor operation.

5. Install the two (2) new mufflers on their hangers. Attach the ground strap to the left muffler brace using the short 8mm bolt, flat washer and flange nut supplied.
6. Install the new front down pipe (with the oxygen sensor installed) on the turbo outlet. The existing gasket may be reused if the condition of the gasket is acceptable. Due to the health hazards of an exhaust leakage, use a new gasket if the gasket condition is questionable. Do not tighten completely. Reconnect the oxygen sensor wire.
7. Using a supplied gasket and the longer 40mm bolts, connect the presilencer to the down pipe. Next, using a supplied gasket and the longer 40mm bolts, connect the y-pipe to the presilencer. Finally, connect the mufflers to the Y-pipe using the supplied gaskets and the shorter 35mm bolts. Do not tighten completely.
8. With all flange connections and hangers still slightly loose, start tightening from the front end to the rear. Check frame clearance and alignment of the muffler tips at the rear bumper. If needed, the alignment of the tip in the bumper opening can be adjusted by loosening the components and rotating them slightly.

Air Pump Removal

1. Disconnect both hoses attached to the air pump, then remove the air pump, belt, and adjustment arm. Leave the air pump OUTLET hose attached to the steel tube which is mounted to the Air Control Valve found on the intake manifold.
2. Remove the air pump INLET hose from the air filter housing. Install the supplied red plastic cap on the air filter housing port left open by this hose removal.
3. With both hands, reach down beneath the plastic air filter housing and locate the small, plastic Air Box Muffler. This assembly is joined at both ends with hoses (2 hoses total).
4. Once you have located this plastic Air Box Muffler, identify the hose that leads from this muffler to another plastic canister assembly attached to the frame rail. Disconnect this hose from the Air Box Muffler and remove this hose and the rail-mounted plastic canister assembly completely from the chassis. One end of this plastic Air Box Muffler is now open.
5. Locate the open end of the air pump OUTLET hose referenced in step (1) above and attach this end to the end of the plastic Air Box Muffler left open in step (4).
6. Position the re-mounted plastic Air Box Muffler so that it is clear of any moving components (belts, pulleys, etc.).
7. Removal of the air pump is now complete.