1HD-FTE EGR Delete Kit

Installation Guide – Land Cruiser HDJ78 / HDJ79 / HDJ100



Tillix billet intake block (ports shown) and exhaust manifold blanking plate

1. Overview

The factory EGR valve on the 1HD-FTE creates a restriction and a carbon collection point in the intake stream. Over time this leads to reduced airflow, smoke, and poor performance. The Tillix kit removes the EGR valve from the intake path and blanks the exhaust manifold port so the pipe can be removed if desired.

The intake block is CNC machined from billet alloy, media blasted, and clear anodised. It is pre-drilled and tapped with 1/8" and 1/4" BSP ports (boost gauge reference and water/methanol injection if required). Ports can face forward or rearward.

2. Kit Contents

- Billet intake EGR delete block (with 1/8" & 1/4" BSP ports)
- Exhaust manifold blanking plate
- Genuine Toyota gaskets
- Blanking bungs for unused ports
- This installation guide

3. Tools & Safety

- Metric sockets / spanners (typically 10–12 mm)
- Torque wrench
- New or supplied genuine Toyota gaskets
- Intake cleaner and rags
- Safety glasses and gloves

Disconnect the negative battery terminal. Work on a cool engine. This product is intended for off-road or race use only — comply with local regulations.

4. Intake Side – Remove EGR Valve & Fit Block

Access the EGR valve area on the intake crossover / throttle body side. Remove any intake piping or clamps required for clearance.

1. Disconnect vacuum lines and electrical connectors associated with the EGR valve (label if needed).
2. Remove the bolts securing the EGR valve / intake connector.
3. Carefully remove the EGR valve assembly. Clean all mating faces thoroughly of carbon and old gasket material.
4. Fit the Tillix billet intake block with the supplied genuine Toyota gasket. Orient the 1/8" and 1/4" ports forward or rearward as preferred.
5. Install and torque the fasteners evenly in a cross pattern. Do not overtighten.
6. Fit blanking bungs in any unused ports, or install a boost gauge fitting in the 1/8" port and/or water-methanol fitting in the 1/4" port if desired.

Toyota service practice: always use new gaskets and clean surfaces for a proper seal. Reference genuine Toyota intake flange gaskets as supplied with the kit.

5. Exhaust Side – Blank the Manifold Port

If fully removing the EGR pipe, blank the port on the top/rear of the exhaust manifold.

1. Remove the EGR pipe from the exhaust manifold (studs can be tight — use penetrating oil and care to avoid breakage).
2. Clean the manifold face thoroughly.
3. Fit the Tillix exhaust blanking plate with the supplied genuine Toyota gasket.
4. Secure with suitable fasteners and torque evenly.
5. If keeping the pipe for appearance, the intake block alone is sufficient to stop exhaust gas entering the intake.

6. Vacuum & Electrical Notes

- Cap or blank any unused vacuum lines that previously went to the EGR valve to prevent vacuum leaks.
- On many vehicles the EGR solenoids can remain connected electrically to avoid codes; simply isolate the vacuum path.
- Leave unrelated sensors (boost, temperature, etc.) connected.
- Model variations exist between HDJ79 and HDJ100 — verify your specific setup.

7. Reassembly & Checks

- Reconnect the battery and start the engine.
- Check for intake or exhaust leaks.
- Confirm no unexpected warning lights related to the EGR circuit.
- Monitor the first drives for improved throttle response and reduced smoke.

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Based on Toyota service practices and Tillix product specifications. Vehicle variations exist — verify for your model. For off-road/race use only.