

3F-E Tune Up Parts and Tidbits.

1. Spark Plugs: OEM part# 90919-01091 Correct electrode gap: 1.1 mm (0.043 in.) Recommended spark plugs: ND W 16EXR-U11 or NGK BPR5EY 11
2. Spark Plug Wires: OEM part# 90919-21503 Typical lifespan about 5 years depending on climate.
3. Distributor Cap: OEM part# 19101-61240
4. Distributor Rotor: OEM part# 19102-61240
5. Distributor Cap Gasket: OEM part# 19127-61240 Rubber O-ring that sits in the groove of the distributor housing. Must be there for a good seal.
6. Distributor Cap Rubber Cover: OEM part# 19114-61040 Also called distributor rubber boot. It is a waterproof, rubber boot that snaps in place over the cap and wires preventing water splash problems. This was a standard part on all FJ80 3F-E motors, however it has become difficult to source. Some say it did not exist, but I have had one on mine since 1991. I was able to order a new one from Toyota some years ago.
7. PCV Valve: OEM part# 12204-35040
8. PCV Valve Grommet: OEM part# 90480-18001 This can become dry and brittle over time and is a good source of vacuum leaks.
9. Air Filter: OEM part# 17801-61030 This is the OEM washable air filter. I keep 2 of these and switch off when I feel it's time. The dirty one can be washed in a mild soap, rinsed, and hang dried. Ready to go in 24 hrs. Incredibly overbuilt and sturdy. Minty fresh when washed with Simple Green.
10. EGR Valve: OEM part# 25620-61120 The EGR valve and modulator (flying saucers mounted on top left of intake manifold) both have rubber diaphragms inside that become brittle with age and heat. They tend to disintegrate and the resulting particles can clog vacuum lines. A faulty EGR system will yield poor acceleration under 2100 RPM and feel like a turbo kicked in above that range. They are also a good source for vacuum leaks. Both the valve and modulator should be replaced at the same time and all hard vacuum lines should be cleared out with a solid strand wire and some WD40. The vacuum system can have a profound effect on brakes as well. Make sure it's in good shape.
11. EGR Valve Gasket: OEM part# 25627-61021
12. EGR Modulator: OEM part# 25870-61020
13. Soft Vacuum Lines: OEM part# 90999-92003 (600mm) These are available in bulk from Toyota and can be cut to length. McMaster also has a good metric equivalent (9355T11) for less money. Replace 1 hose at a time to avoid mistakes. There is a vacuum diagram under the bonnet.
14. Valve Adjustment: every 15K miles according to the FSM
15. Valve Cover Gasket: OEM part# 11213-61020 gasket and grommets should be replaced at each valve adjustment. Also a great place for vacuum leaks.
16. Valve Cover Grommets: OEM part# 90210-13001