

1: Toyota 4age Blacktop Service Manual - [www.enganchecubano.com](http://www.enganchecubano.com) - [www.enganchecubano.com](http://www.enganchecubano.com)

*Complete 4Age Manual Hi All, Don't know if this is a repost, but i found a online copy of the Full page 4age manual might be useful to some others too.*

One of the most outstanding and popular engines of that brand is a 4A motor. It was a 4-cylinder engine, which appeared long ago, in For the first time, it was a weak 4A-C with a carburetor. Its cylinder head consisted of 8 valves with one SOHC camshaft. The motor was modified within a course of time; it became more powerful, more advanced. Toyota 4A engine firing order is Apart from that legendary engine, other models, such as the 5A and 7A engines were successfully manufactured. The Toyota 4A production stopped in It was replaced with the 3ZZ-FE namely at that time. That model was originally designed for the market of North America. Its compression ratio was 9. The compression ratio was 9. A similar type of the 5A engine was produced later, but it had a diminished displacement 1. A few generations of that motor were manufactured. Its power is HP. The power of such an engine equals HP. The engine is similar to the 4AFE Gen2 with small improvements of the inlet system. The compression ratio is 9. It was designed by Yamaha and equipped with a multi point injection MPI. It possesses a completely renewed cylinder head of a new modification. Apart from that, more aggressive camshafts and a T-VIS variable-length intake manifold go with that model. New connecting rods and pistons go with the model. They perfectly fit the The intake manifold has been changed. The main difference is a usage of another twincam valve cylinder head 3 inlet and 2 outlet valves. More aggressive camshafts, variable valve timing on the intake camshaft, individual throttle bodies are used. The compression ratio is high: After all that upgrading, the 4AGE capacity is horsepower at 7, rpm. That engine has enlarged throttle body. The inlet and outlet ports are improved. The flywheel and pistons are facilitated, the engine compression ratio is about More aggressive cams have been installed. A supercharger is applied. The SC12 supercharger is used. The maximal boost pressure is 9 psi 0. Forged pistons are applied to that engine compression ratio " 8. It also possesses a T-VIS variable-length intake manifold. The 4AGZE capacity is horsepower at 6, rpm. It is the 2nd 4AGZE model. It had a modified inlet system, increased compression ratio up to 8. A high fuel consumption. Mostly, the problem is connected with the oxygen sensor and it is better for you to replace it. If any carbon black on the spark plugs, black smoke from the exhaust pipe, vibrations at idle running, you had better check the MAP. The vibrations and a high fuel consumption. In that case, you should clean the injectors. If any problems associated with rpm, hanging-up, rotaions at a high rate, you should check the idle air control valve, throttle position sensor and clean the throttle body. If the rough idle, clean the throttle body and idle air control valve, check the spark plugs and injectors with the PCV valve. If the 4A engine stalling, check the fuel filter, fuel pump and ignition distributor. If any oil consumption, your 4A engine is old and needs an overhaul. In that case you should buy the scraper rings and valve stem seals. If you hear a knocking noise of the engine, as a rule it is a wrist pin knock or you should adjust the valves. Besides, crankshaft oil seals can leak, there are failures with an ignition system, etc. That happens not due to any constructive errors, but rather due to the 4A engine aging. To prevent all possible problems, you need to buy a brand-new 4A engine, do regular maintenance works and use only a high-quality engine oil. The 4A engine lifespan is over , miles , km of mileage. Besides, you should not buy the 4A Lean Burn engines. These engines have a little bit smaller capacity. They are more vulnerable to the problems and their details are highly expensive. All the above mentioned problems are typical of the similar engines, such as the previously mentioned 5A and 7A engines. The TRD company proves that. Its capacity is hp. To achieve high results you must take the 4A-GE engine as a sample. The 4A-FE differs from the other one with its cylinder head. It is not the best option for tuning. Bulding the 4A-FE engines is also a bad idea. You had better go and buy a new 4AGE one. It would be cheaper. For doing the tuning of the 1st generation 4AGE engines, you should buy a cold air intake, performance camshafts duration deg , and header. In such a case you will be able to develop about horsepower. You also need to port and polish the cylinder head. The 4A-GE Small Port types will probably need all those upgrades in complex and the enlarging of the in- and outlet ports diameter in addition to that. As a result, you will get about horsepower. One can achieve even higher capacity, buying

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new forged pistons, which are fit the 11th compression ratio and light connecting rods. When adjusted, the 4AGE engine power will rise to hp. You will be able to achieve a maximum capacity by mounting a dry sump, buying an oil pump of a Toyota 1G engine and camshafts duration deg , too. After adjusting, capacity will comprise about horsepower and maximal rotations " not less than 10, rpm. The 4A-GZE supercharger tuning is performed more easily. To get higher capacity, you need to improve your cylinder head, mount the forged crankshaft and pistons compression ratio is 7. You will need a more efficient turbo-kit, which is adjusted at psi 1.

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