

Water-cooled Alternators ANJ220WC

JAS supply Water-cooled Alternators to suit Toyota Landcruiser's with 1VD-FTV Engines.

Landcruiser's with the 1VD-FTV Engines are commonly used in harsh environments such as mine sites where ground water and runoff can be highly corrosive. The water found in the incline at Roxby Downs for example can be 7 times saltier than sea water!

Add to this, the alternators on these vehicles are mounted quite low in the engine bay and subject to both water splash when driving, and immersion in not particularly high-water crossings and you have a very high likelihood of water damage to the alternator. It is impossible to keep water out of the original style alternators due to the need for air flow through them for efficient cooling. Air flow in an alternator is from the rear, as the cooling fans, mounted to the rotor winding internally pull air in from the rear over the highest temperature parts of the alternator which are the diodes mounted in the rear housing. This is also where the brush gear is and water can adversely affect the brush gear, slip rings and rectifier to stator connections, I have seen stator connections corroded off in alternators used in Broken Hill.

The answer to this is completely enclose the alternator and liquid cool them. These Alternators are also high output at 140 Amps and need good cooling to avoid overheating.

ANJ220WC comes with complete fitting instructions and all parts required for fitting.

Complete fitting instructions are also available by selecting Tech Info on eJAS when viewing ANJ220WC.

