



UNIQUE

INNOVATIVE

SAFE

SINCE 1965 MACS ENGINEERING has continuously provided safe, robust, reliable and innovative solutions for our customers. We work closely with independent engineers, research institutes and other like minded companies to ensure our products are always cutting edge, highly effective and, importantly, safe.

MACS DESIGNED COMPOSITE SUMP GUARD



At MACS we know that reliability is paramount. Our MACS designed composite sump guards are a cut above the rest, meeting both our clients' stringent demands as well as Australian standards to ensure the highest level of safety and performance.

The position of the sump on the new 70 Series V8 Landcruiser means that a conventional steel under guard is not suitable. Drawing on cross industry expertise, MACS Product Development team has designed a solution utilising state of the art composites, which offers superior protection without compromise.

- Suits Toyota Landcruiser 70 Series (all variants)
- Composite Construction (Carbon Fibre - Tri axial / High temp resin)
- Ultra low profile design (minimal effect on ground clearance)
- Close fitting (no restriction to access for service or repairs)
- Chemical bonding (guard & sump integrated, no fasteners to come loose)
- No metallic parts (will not dent / zero corrosion)
- Laminated to original sump (no space for mud or dirt build up)



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