

MALAYSIA'S ONLY ENGLISH 4WD PUBLICATION

# 4 Wheel DRIVER

**COVER STORY**

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# BULL BARS



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**B**ull bars spearheaded the protection equipment industries for 4WD vehicles. First seen in Australia in early 70's, bull bars were designed to protect the vehicles against collisions with animals such as Kangaroos, Wombat and Bulls. Nowadays bull bars serve to protect 4WD vehicles against collision with other vehicles as well as to house winches, spotlights, CB aerials and provide strong hi-lift jacking points. Hence now they are more widely known and accepted as winch bar.

Bull bars come in different patterns and sizes. Many bull bars are being fabricated locally. Only ARB and TJM bars are being imported from Australia by their dealers in Malaysia.

Imported bars such as those from ARB are of high quality. ARB bull bars are engineered (designed and manufactured) through a thorough process using premium BHP (Broken Hill Proprietary Ltd - Australia number 1 steel company) cold-rolled sheet steel with 250 grade wall tube. They meet and exceed Australian standards and carry public limited liability warranty.

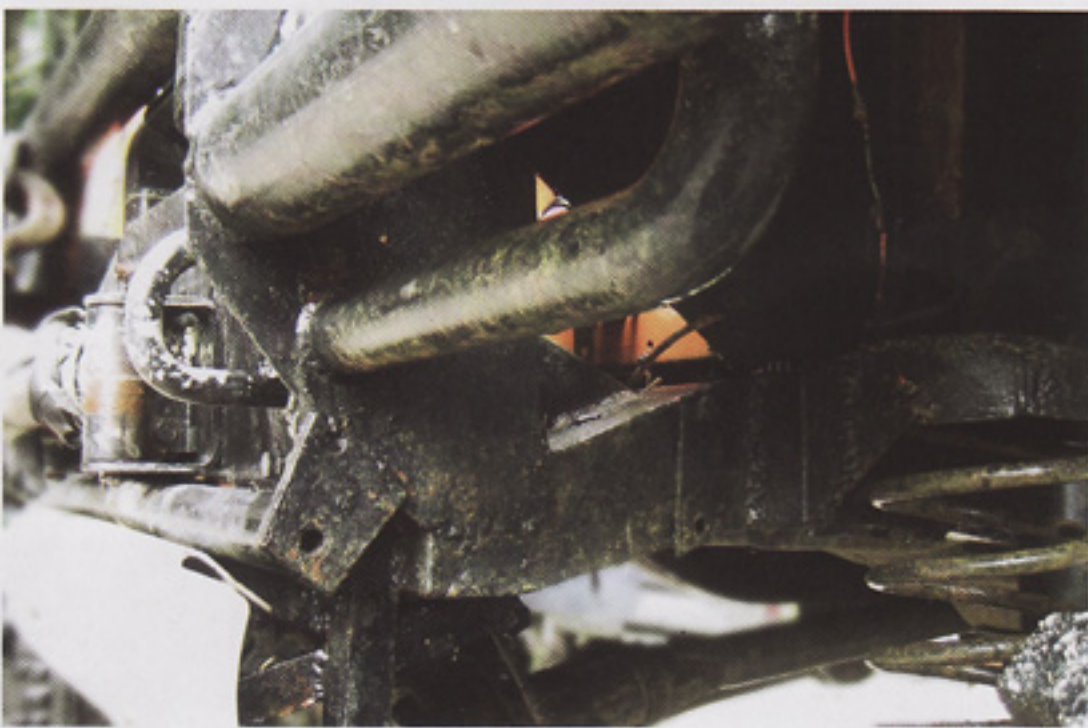




Note the mounting of the bull bar onto the chassis.



ARB bull bar with an air bag compatible device.



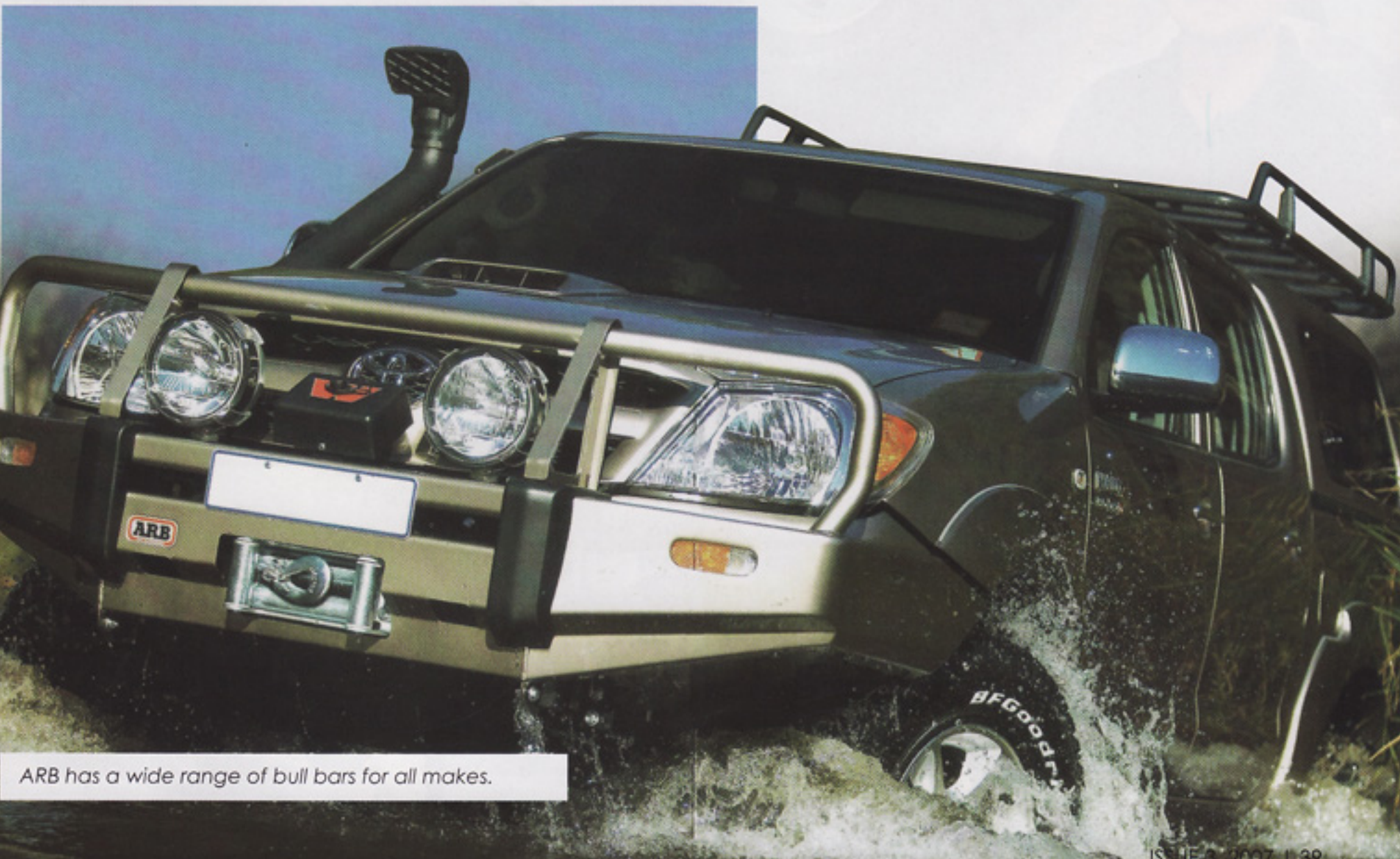
Crude welding from a homemade bull bar.

ARB bull bars are being manufactured using specialised computer control laser cutting equipments, mandrel bending machines and MIG welders. They are not sections of steel welded together; rather, a solid piece mould and bent structure. At critical areas, additional reinforcements and gusseting are added.

Mounting systems are the most important part of bull bars. ARB mounting system act as an integral cross member, spreading impact and winching loads over both chassis rails. In actual fact all ARB bull bars can easily take a load of three times the vehicles weight.

ARB's design of the central part of their bars ensures that WARN electric winch can be easily mounted. The design also allows for proper air flow to the radiator, hence eliminate possible overheating problem.

All ARB deluxe bull bars are shot blasted, bathed in phosphate solution then powder coated to give an excellent aesthetic finish.



ARB has a wide range of bull bars for all makes.