Product Specification

**DESIGN & DEVELOPMENT:**

Toyota’s MY16 200 Series Landcruiser gave ARB’s engineers an opportunity to design and develop an ARB Alloy bar specifically for the GX and GXL models.

The 200 Series Alloy Bar adds to ARB’s range of Alloy Bars and is based upon a few key characteristics. To achieve the weight saving expected of an alloy bar, ARB’s engineers have concentrated on strength through design. Three different alloys and tempers are used in production of the ARB Alloy bar. These specific grades of alloy have been chosen to provide excellent corrosion resistance and high fatigue strength.

Due to the size and weight of the vehicle and the requirement for fitment of winches up to a 12,000lb low mount winch, bar uprights and the separate winch cradle have been specifically designed and tested for the 200 Series. Thickness of the materials used have been increased to suit the additional loads.

Where the driver or passenger seating position may be elevated or forward, ARB recommend fitting part no 3500700 ANTI REFELCTIVE TAPE KIT to eliminate any glare from the headlights on the outer tubes.

Due to headlight washers, Original Equipment LED fog lights, parking sensors and Multi Terrain View Camera this bar does not suit the VX or Sahara model 200 Series.
PROTECTION & STYLING CHARACTERISTICS:

- Vehicle specific design for the 200 Series GX and GXL.
- Registered design of styling and design components.
- 5mm alloy used for bar uprights. 4mm alloy used for wings and pans. 3mm wall thickness tube used in both 60mm and 48mm outer frames and cross piece.
- Incorporates ARB's renowned multi fold upswept and tapered wing design for optimum strength and approach angle.
- 30mm radius on wings and centre section.
- Engineered, air bag compatible mounting system secures to the chassis via high tensile bolts.
- Split pan design for maximum strength and airflow.
- 2 piece grill design for split pan.
- Extensive steel protection panels on centre and either side.
- Pressed form top pan and polished aluminium winch cover panel.
- Durable two piece buffers.
- Will accommodate Warn, Magnum, Bushranger Smittybilt low mount model electric winches up to 12,000lb (not Warn M12,000). Separate winch mount is required.
- Provision to accommodate ARB Intensity LED's and a range of Bushranger and IPF lights.
- Provision for optional ARB Fog light part number 3500590.
- Includes ARB LED Indicator and Clearance light.
- Two aerial brackets located on the top of the centre cross tube.
- Bar adds approximately 210mm to the overall length of the vehicle.
- No Hi Lift jack points provided on the ARB Alloy bar.
- Part No 3500700 Anti-Reflective Tape kit is available for customers experiencing reflection on the outer tube.

WEIGHT:

Weight has been an important consideration when developing ARB's range of Alloy Bars. The bar assembly of the 200 Series alloy bar compared to the ARB Summit bar equivalent bar assembly is 50% lighter at approximately 29kg versus 58kg.

Bar chassis mounts and under wing panels between alloy and steel alternatives are similar at approximately 30kg. The winch mount for the alloy bar is approximately 17kg.

ALLOY AND WELDS:

Like with steel, alloy comes in different specifications and different resultant strengths. How alloy is processed through the manufacturing process can also affect the mechanical properties and strength of the alloy.

Three different alloys and tempers are used in production of the ARB alloy bar for the 200 Series. The bar to chassis bracket mounts and uprights use a 5mm 5083-H116 alloy. Centre pans and wings use a 4mm 5052-H32 heat treated alloy. The outer and centre tubes use 6063-T4 heat treated to T4 temper for strength and workability. Outer frame is 60mm x 3mm tube and the cross piece is manufactured from 48mm x 3mm tube.

BUFFERS, SPLIT PAN GRILL AND FOG LIGHT SURROUND:

ARB's Alloy Bar range features two piece buffers, split pan grill and ARB’s Fog Light Surround (fog light part number 3500590 is optional). All three components are designed to integrate with each other and the bar design.

The upright section of the two piece buffer has a style line to complement the fog light surround.

To assist with valuable air flow to the radiator the split pan has a
two piece grill for an integrated appearance.

An access door on the left hand side allows access to winch clutch handles. This door also overcomes clutch lever access when larger lights are fitted to the top pan.

FOG LIGHTS:

ARB's new fog light surround is featured in the ARB Alloy Bar for the MY16 200 Series. The fog light surround accepts ARB's S1W Fog Light, part number 3500590. The surround is supplied standard with a screw in cover if no fog light is to be fitted.

ARB Auxiliary Fog Light Loom Part number 3500530 is required if fitting the ARB Fog Light option.

A clear fog light cover has been developed separately under part number 3500680.

The fog light surround will be supplied in a natural black finish to complement the buffer design. Colour coding of the bar isn’t recommended due to the polished finish of the bar.

PRESS FORMED TOP PAN AND WINCH COVER PANEL:

The top pan of the 200 Series ARB Alloy bar features a press form to add strength and allow for the winch cover panel to be recessed.

For when no winch has been fitted, a 4mm press formed winch cover panel is supplied. When fitted the winch cover panel is recessed in the press form top pan to give a level and integrated appearance.
WINCH MOUNT:

ARB’s Alloy Bar range feature separate winch mounts to keep the overall bar weight down (for non-winches applications) and ensures that the full weight of the winch and control box are on the bar mounts rather than on the bar assembly itself.

The lower pan of the bar features a knock-out panel for when a winch is to be fitted.

To suit the load and physical weight requirements of a 12,000lb winch the winch cradle is manufactured from 5mm steel. The mount enables the winch control box to be recessed lower in the pan. Different mount holes and control box mount brackets are provided to suit different winches.

<table>
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<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tr>
<td>3515070</td>
<td>WINCH INSTALL KIT ALLOY BAR</td>
<td>200 SER 10/15ON 8-12 (NOT M12)</td>
<td>012 – BARWORK ACCESSORIES</td>
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WINCH MODEL FITMENT:

The ARB Alloy Winch mount for the GX and GXL MY16 200 Series fits the following winches:

- Warn M8000, XD9000, 9.5XP, 9.5XDC, 12.0XE (Not M12000)
- Warn ZEON 8, 8-S, 10, 10-S and 12
- Warn ZEON Platinum 10, 10-S and 12
- Warn Magnum 8, 10 and 12
- Smittybilt Gen2 X20 10K
- Bushranger DV-9TH, DS-9.5TH, Seal 9.5TH and DV-12TH

Due to the orientation of the Warn M12000 (clutch handle on the right hand side) this winch is not recommended fitment to the Alloy Bar.

The Alloy bar winch mount has an integrated control box mount that recesses the control box lower in the pan. When mounted this way there is no effect on the vehicles radar system (if equipped). Different mount holes and control box brackets are provided to suit different winches. Winch fitting kit instructions have further information as to which mount hole or bracket is suitable.

Please note that not all winches on the market will have mount holes pre-drilled.

Additional fit kits are required depending on the winch being fitted:

- 3515070 WINCH INSTALL KIT ALLOY BAR|200 SER 10/15ON 8-12 (NOT M12). This kit includes a flip up number plate bracket.
- Warn ZEON and ZEON Platinum fitment require Warn part No W89965 Short Wiring Kit.
- Warn ZEON Platinum fitment may require Warn part No W94288 Enhanced Signal Kit.
- Winches fitted with a hawse fairlead will require part No 3500600 Hawse Fairlead Spacer Kit.
ANTENNA MOUNTS:

Two aerial mounts are welded to the centre cross tube to allow fitment of UHF/AM radio and mobile phone aerials/antennas.

Synchro pulse controlled welding is used for a visually appealing weld with seam quality that is comparable with that of a TIG weld.

LED CLEARANCE LIGHT / TURN SIGNALS:

Press form apertures in each wing are provided to fit ARB’s LED indicator / turn signal.

DRIVING LIGHT MOUNTING:

The press formed top pan includes laser cut holes for fitment of a range of compatible driving lights including ARB Intensity, Bushranger and IPF 800, 808 and 900 Series lights.

Pinning holes for ARB Intensity lights are included.

It is recommended that driving lights are fitted at the time of bar fitment. If driving lights are being fitted after the bar has been fitted, the centre lower stone tray will need to be removed to provide access to the right hand side driving light mount.