Date: September 2018
Description: ARB Alloy Bar
Application: Toyota Prado 150 10/17 on
Part No. & Barcode: 7421020 - 9332018048486
Dimensions and weight: 7421020 - 2000x850x750 63kg. Excludes packaging
Product Group: 007 – Alloy ARB Bars
Fitting: 4 ½ Hours
Availability Date in Europe: upon request

Product Specification

Design and Development:

Offering a stylish, practical and lighter weight alternative to the Summit, Summit Sahara or Commercial bars already available, an ARB Alloy bar has been developed to suit the MY17 Toyota Prado.

There are minimal carry over items from the previous Prado 150 Alloy bar. Whilst chassis mounts and some of the trim pieces (front buffer section and 3 piece grill) are retained, the new Summit Bar has required:

- new wings,
- new upper and lower pans,
- new winch control box mount,
- new press form winch cover panel,
- new cover straps and uprights,
- new outer frames,
- new under panels
The Alloy bar shares a number of features with the Summit bar including press form top pan and winch cover, 30mm wing and pan radius, split pan grill with twin doors for winch and driving light mount access.

**Protection and Styling Characteristics:**

- Vehicle specific design for the for the Toyota Prado 150 10/17 on models. Development has been conducted on both GXL and VX Specification vehicles.
- 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.
- 3 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 three piece buffers.
- Provision for OE parking sensors (plugs provided for vehicles without OE sensors).
- Will accommodate Warn, Magnum, Bushranger Smittybilt low mount model electric winches up to 10,000lb. Separate winch mount is required.
- Provision to accommodate ARB Intensity LED’s and a range of Bushranger and IPF lights.
- Provision for OE LED Fog Lights. ARB Fog light kit part no 3500590 optional for GX model. Refer fog light section below for additional parts required.
- Provision for optional ARB Fog light covers part no 3500680.
- Optional camera relocation kit available under PN 3521050.
- Includes ARB LED Indicator and Clearance light.
- Two aerial brackets located on the top of the centre cross tube.
- Bar adds approximately 185mm 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 alloy bar compared to the ARB Summit bar equivalent bar assembly is 43% lighter at approximately 27kg versus 47kg.

Bar chassis mounts and under wing panels between alloy and steel alternatives are similar at approximately 37kg. The winch mount for the alloy bar is approximately 14kg.
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 Prado. 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 three piece buffers, split pan grill and ARB’s reduced Fog Light Surround designed to accept the OE LED fog light. 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 three piece grill for an integrated appearance. Dual doors allow access to winch clutch handles and to assist with driving light fitment and adjustment.

Fog Lights:

ARB’s reduced fog light surround is featured in the ARB Alloy Bar for the Prado 150 to accept the OE LED foglight.

Fog light fitment to the GX model Prado will require:
- PN 3163082 KIT SURROUND ARB FOGLIGHT
- PN 3500590 ARB FOG LIGHT KIT
- PN 3500530 ARB FOG LIGHT LOOM
Both versions of the fog light surround are supplied in a natural black finish to complement the buffer design.

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

**LED Clearance Light / Turn Signals:**

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

**Pressed Top Pan and Winch Cover:**

The top pan of the 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.

**Antenna Mounts:**

Two aerial mounts are welded to the alloy 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.
Winch Model Fitment:

The ARB Alloy Winch mount for the Prado fits the following winches:

- Warn M8000, XD9000, 9.5XDC
- Warn ZEON 8, 8-S, 10, 10-S
- Warn ZEON Platinum 10, 10-S
- Warn Magnum 8, 10
- Smittybilt Gen2 X20 10K
- Bushranger Revo 10 and Seal 9.5TH

The Alloy bar winch mount has an integrated control box mount that recesses the control box lower in the pan. 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:

- 3521070 WINCH INSTALL KIT ALLOY BAR | SUITS 7421020. 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.

Camera relocation kit:

A camera relocation kit has been developed under PN 3521050 to relocate the camera to the split pan within the grill assembly. Please note that the image will be different to the original image displayed.


*Note fitment shown to Summit steel bar
Driving Light Mounts:

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.

Parking sensor provision:

The wings and lower centre pan of the Summit Bar feature provision for the OE front parking sensors. Sensors are re-fitted to the bar using the OE surrounds to replicate, as close as practical, the OE operation of the sensors.

Studs are projection welded to the inside face of the wings and pan to allow sensor retention brackets to be bolted in place to securely locate the OE parking sensors.

The two central parking sensors are located approximately 87mm lower than their original position. The two outer sensors are mounted approximately 55mm lower and 69mm further outboard than their original position.