

PRODUCT SPECIFICATIONS

**Publication Date:**

March, 2020

Description:

Rear Protection Bar RPB

Application:

Ford Ranger PXIII

10/2018+

Ford Ranger PXI & PXII

10/2013 - 9/2018

Fitting:

Minimum 0.40 Hours

(Non Parking Package)

Minimum 2.5 Hours

(Parking Package)

Available:

Now



PROUDLY
AUSTRALIAN MADE

Product Specification

Designed for Service or Cab Chassis Vehicles, SmartBar's new Rear Protection Bar (RPB) offers outstanding vehicle protection in the event of a rear impact. It compliments the design and shape of the vehicle, maintains the factory accessories and helps protect the canopy and pedestrians in the event of an impact. Seated at an optimum height for a comfortable step, the RPB is also designed to hinge upwards to improve the departure angle of the vehicle.



Non-Towbar Variant



Towbar Variant

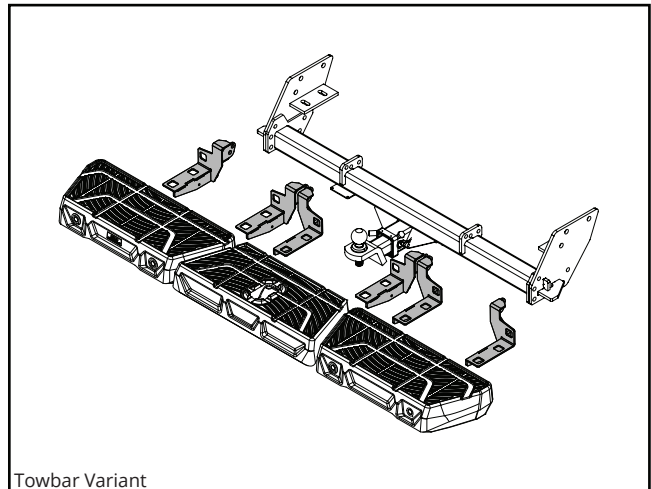
Protection & Styling Characteristics:

- Towbar and Non-Towbar Variants.
- Superior rear protection, due to the impact absorbing hollow construction.
- Significantly reduced repair costs after impact.
- Articulates for increased departure angles.
- Compatible with both OE and after-market rear parking sensors (parking sensor model must be ordered).
- High grip moulded in tread pattern.
- Choice of bracket kits to suit different body builders (change to overall vehicle length).
- UV stabilised polymer for durability and corrosion resistance.
- Styled to maintain the Vehicle's aesthetic.
- Manufactured from environmentally friendly, recyclable polyethylene polymer.
- Will not catch or pool water.
- Can be installed by a single person.
- Maintains access to spare wheel.
- Tow Bar Step variant. Supplied with towbar system.
- Shipping Dimensions: **1870 L x 360 W x 280 H**

Rear Vehicle Protection:

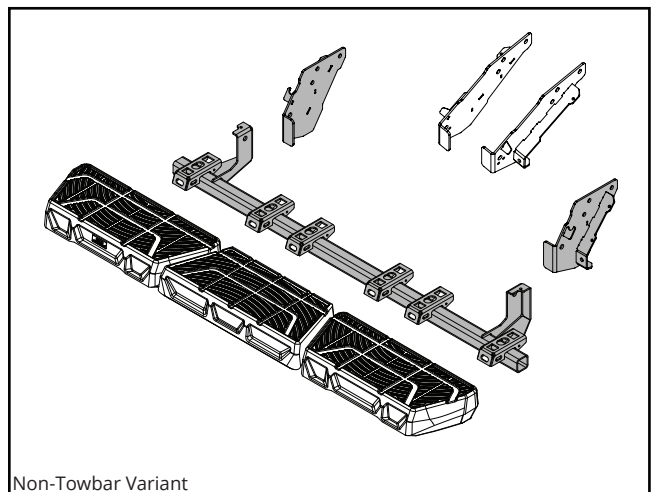
The chassis mount design comprises of a three part construction which provides strength in the event of rear impacts and also top loading when being used as a step.

The Towbar variant enables individual steps to hinge while the Non-Towbar variant hinges all three steps at once. This allows use of the towball and access to the side steps.



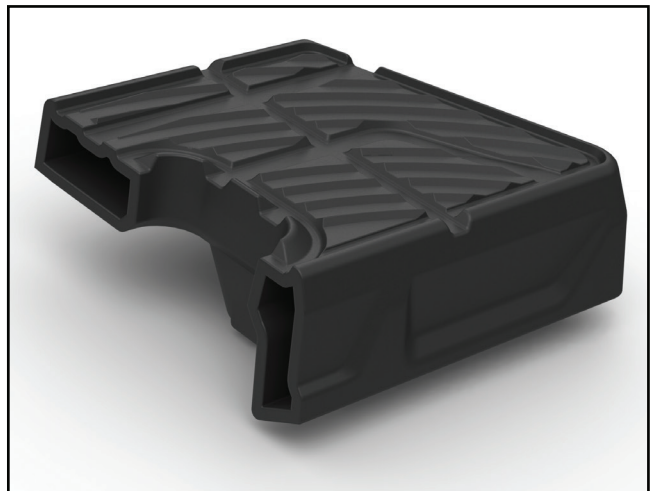
Rear Vehicle Protection:

Towbar variant comes supplied as part of a complete kit which includes the towball and the rear bar components.



Unique Material Properties:

Our unique blend of LLDPE (Linear Low Density Poly-Ethylene) is UV stabilized and extensively proven to absorb impact repeatedly (as proven in our frontal collision systems). During an impact, the bar can deform up to 80% of its original shape whilst absorbing the impact forces only to return to its original shape shortly after.



Towbar Compatible - Towball:

Three individually hinged steps with built in lock-out mechanism allow for increased trailer articulation while also increasing the departure angle without sacrificing any tread area.



Towbar Compatible - Pintle Hook:

Modular design allows for a variety of custom options simply by removing the middle step.

Two step version allows for the use of a pintle hook as shown.



Non-Towbar:

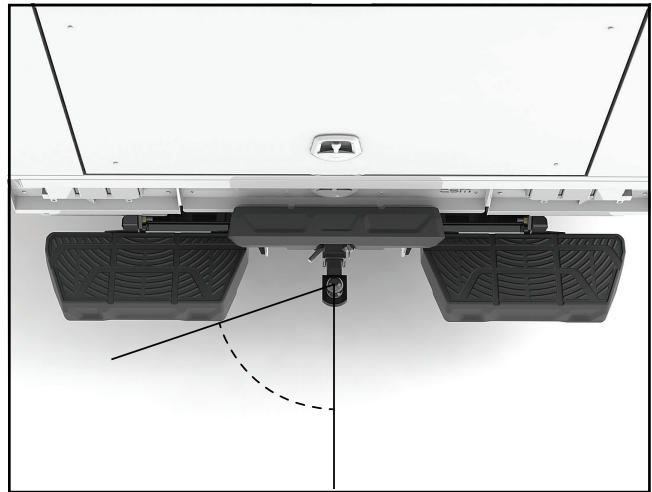
Non-Towbar variant is a lighter alternative if towing is not required. The step pivots for improved departure angle.



Maximum Trailer Sweep

Steps are designed to maximise the sweep of the trailer A-frame while protecting the body from over steering.

The AS 4177.1 design exceeds the requirements as the steps can be locked in the 'up' position for increased sweep to almost right angles.



High Grip Tread pattern:

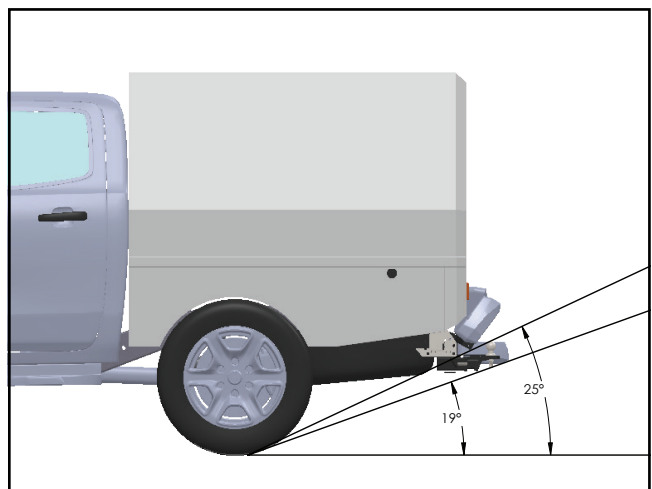
The top of the Rear Protection Bar has a high grip tread pattern moulded in allowing for a safe and comfortable step when accessing the Service Body roof.



Departure Angle:

Hinged steps allow for an increased departure angle.

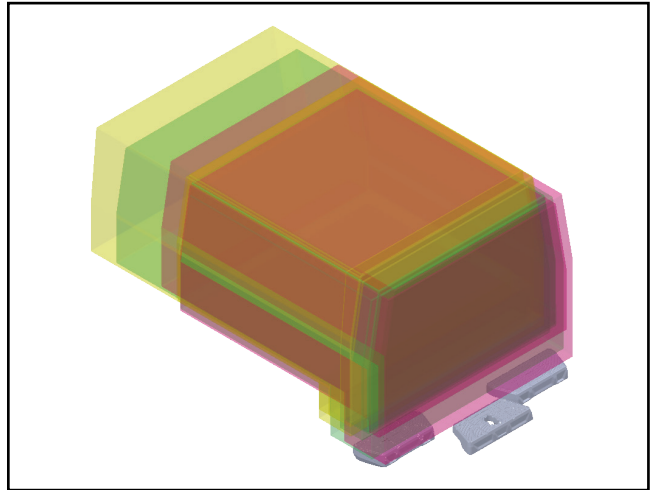
Angles shown are for the short bracket variant. Angles will vary depending on suspension and tyre upgrades.



Easy Vehicle Adaptation

Designed to be fully modular, our current design supports more than 10+ body builder canopy designs.

Custom requirements to suit your canopy design will be assessed on case by case basis so feel free to contact our sales department.



Parking sensors:

Parking sensors are relocated into the Rear Protection Bar and slightly recessed to protect the sensor heads. As a result, they are also protected from the elements.



Crash Tested:

Repeatedly crash tested to optimize performance and improve durability.



PART NUMBER MATRIX



REAR BAR SERVICE BODY FORD RANGER PXI - PXIII

Description	Part Number	Fitted Weight	Fitting Time	Departure Angle	Length Added
Non Towbar Variant					
Short Service Body Non towbar Step ¹	RB012BL013 ⁵	32kg	0.40 Hours ⁶	25°	115mm
Medium Service Body Non towbar Step ²	RB012BL014 ⁵	33kg	0.40 Hours ⁶	23°	115mm
Long Service Body Non towbar Step ³	RB012BL017 ⁵	35kg	0.40 Hours ⁶	20°	115mm
Towbar Variant					
Short Service Body Towbar + Step ¹	RB014BL015 ⁵	51kg	2.5 Hr ⁶	25°	115mm
Medium Service Body Towbar + Step ²	RB014BL019 ⁵	53kg	2.5 Hr ⁶	23°	213mm
Long Service Body Towbar + Step ³	RB014BL021 ⁵	55kg	2.5 Hr ⁶	20°	316mm
Towbar + 2 Step Variant (Medium Brackets) ⁴	RB016BL016 ⁵	43kg ⁴	2.5 Hr ⁶	23°	213mm

1. Tested with XL Service Body (SC chassis,DC chassis)

2. Tested with AAA Service Body (SC chassis, SpaceC chassis)

3. Extended bracket variant for longer service body

4. Does not include Pintle Hook
- 5 For fitment to other Service Body manufacturers, consult SmartBar for overall dimensions and clearances

6 Add 1 Hour for parking sensor harness fitment