



# OFFTRACK NUDGE BAR

## FITTING INSTRUCTIONS



# MAZDA BT50 PRO 2011 - 2019 PK101MA11

**Fitting Time : approx. 1.5-2 hours**



## **BULL BAR SAFETY NOTICE:**

INSTALLATION SHOULD ONLY BE DONE BY APPROPRIATELY QUALIFIED OR EXPERIENCED PERSONS IN ACCORDANCE WITH THESE INSTRUCTIONS.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT THE PRODUCT IS CORRECTLY FITTED.

## **WARNING:**

- Do not attach Vehicle Frontal Protection System (**VFPS**) to the vehicle using anchorages not intended for this purpose. (e.g. engine mounting bolts)
- Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
- Do not remove the plaque or label from the VFPS.
- Do not modify the structure of the VFPS in any way.
- The VFPS has been produced to provide continued functionality of parking sensors and other "driver assist" features as closely as possible to Original Equipment. However, as all possible road conditions and combination of other accessories fitted to the vehicle which may affect functionality characteristics cannot be anticipated, ***the driver remains responsible at all times for properly controlling the vehicle, monitoring all "driver assist" features and intervening where required to ensure the vehicle is safely operated.***

## **IMPORTANT INFORMATION:**

- Before installing the VFPS:
  - Check that all components, as listed in the assembly table, are available.
  - Thoroughly read all instructions.
- This product or its fasteners must not be modified in any way.
- These instructions are accurate as at the revision date and do not take into account any changes made by the vehicle manufacturer to vehicle design after the revision date or other accessories that are or have been fitted to the vehicle. PIAK cannot be held responsible for such changes and appropriate enquiries should be made before installation.
- Before installing, inspecting and/or maintaining the VFPS, the work space should be safe and clear of fuel, debris, electrical or other components.
- During installation:
  - It is the responsibility of the installer to confirm correct operation/clearance of all components.
  - All holes drilled shall have all burrs and swarf removed then coated with a suitable rust preventative paint.
  - Ensure that all hardware is fastened to torque list as detailed in these instructions.

### **MAINTENANCE AND CARE:**

To ensure continued safety and correct operation of the product, the VFPS must be routinely inspected and regularly serviced (including bolt torque checked for correct tension) by an appropriately qualified or experienced person.

The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement of the fasteners is required, fasteners of the same rating and quality must be used.

If this VFPS is fitted with a hinged number plate bracket, extra care must be taken when returning back to public roads following the use of the winch or conducting a deep water crossing.

The driver must ensure that the number plate bracket is returned back to the down position allowing full visibility of the number plate when returning to public roads.

### **EQUIPMENT:**

These safety products should, at a minimum, be used when fitting or working on the product .



Protective Glasses



Hearing Protection

**Installation in accordance with these instructions and adherence to warnings will ensure compliance with relevant regulatory and safety standards as at the revision date.**

**Failure to adhere to these instructions may affect the roadworthiness of the vehicle or cause personal injury, death or damage to property.**

**BY USING THIS PRODUCT YOU ACKNOWLEDGE AND AGREE THAT TO THE EXTENT PERMITTED BY LAW PIAK WILL NOT ACCEPT LEGAL OR OTHER LIABILITY FOR ANY LOSS, INJURY OR DAMAGE CAUSED BY INCORRECT OR INAPPROPRIATE INSTALLATION OR USE OF THE PRODUCT.**

## TOOLS REQUIRED

- |  |                                |
|--|--------------------------------|
| 1. Metric socket and spanners          | 5. 2" Masking tape             |
| 2. Phillips and flat head screw driver | 6. Jigsaw                      |
| 3. Torque wrench                       | 7. Test lamp or multi-meter    |
| 4. Marking pen                         | 8. Drill and metric drill bits |

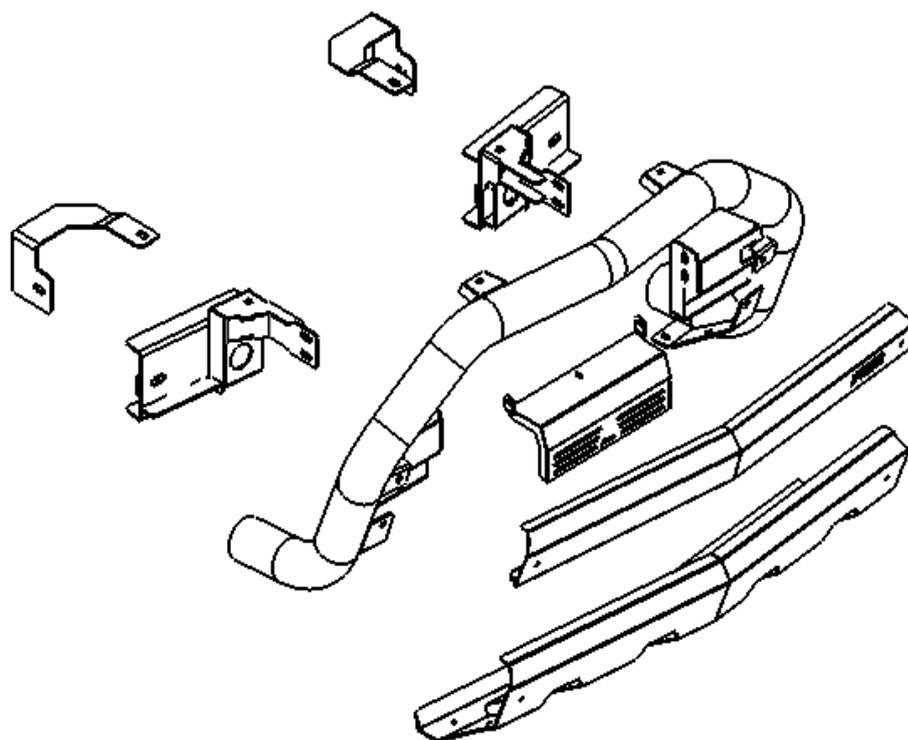
## PARTS LIST



**Important :** Check contents of fitting kit before commencing fitment and report any discrepancies.

Steel Nudge bar			
Item	Component Name	Q'ty	Remarks
1	Nudge Bar Mazda 2011	1	
2	Front Protection Plate	1	
Chassis Mounts to Vehicle			
Item	Component Name	Q'ty	Remarks
3	Chassis Mount RH	1	
4	Chassis Mount LH	1	
5	Suport Chassis Mount RH/LH	1	
6	M10 x 1.5 x 25 Hex bolt	2	
7	M10 x 1.5 x 35 Hex bolt	4	
8	M10 x 1.25 x 80 Hex bolt	2	
9	M10 Flat washer	10	
10	M10 Spring washer	8	
11	M10x1.25 Flange nut	2	
12	Spacer tube Ø13x55	2	
Bull Bar to Chassis Mounts			
Item	Component Name	Q'ty	Remarks
13	M10 x 1.5 x 35 Socket head	4	
14	M10 Flat washer	8	
15	M10 Spring washer	4	
16	M10 x 1.5 Flange nut	4	
Number plate to bar			
Item	Component Name	Q'ty	Remarks
17	M6 x 20mm Hex bolt	4	
18	M6 Flat washer	8	
19	M6 Spring washer	4	
20	M6 Flange nut	4	

## PARTS LIST CONTINUED



## TORQUE SETTING OF FASTENER

Mounting bolts must be tightened to torque's specified following ;

Bolt Diameter (mm.)	Torque ( Nm )	Torque ( ft.lb )
M6	9	7
M8	22	16
M10	44	32
M12	77	57

## FITTING PROCEDURE



**1** Locate the vehicle in a suitable position.



**2** Remove screws and clips securing the top of grille and take off the cover plastic from the vehicle



**3** Remove the clips that retain the grille. Keep for re-fitment of grille.



**4** Remove and keep the original bolt either side that retain the grille.

**5** Remove and discard the plastic clips and bolts from the lower section of the bumper bar as indicators.

## FITTING PROCEDURE

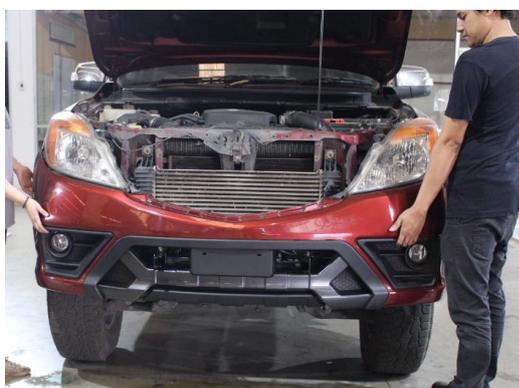


- 6** Remove and discard the screws retaining the bumper bar in the wheel arch.  
Repeat for the opposite side.

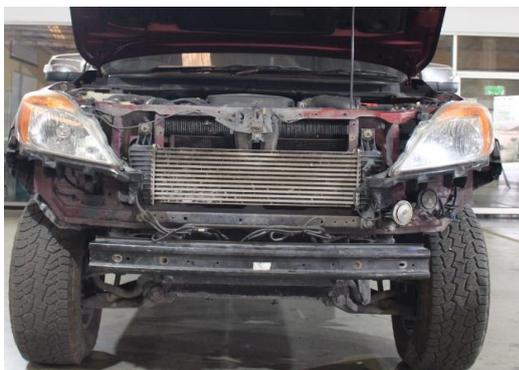


- 7** Disconnect Fog lamp and Parking sensors then remove bumper.

Repeat for the opposite side.



- 8** Remove the screws and pins that attach the front bumper to the fender. need to remove the bolts connecting the front bumper Slide the front bumper forward to remove it.



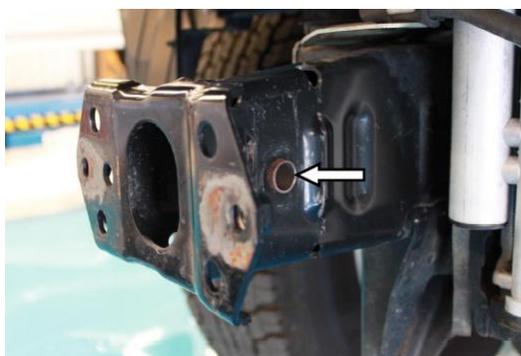
- 9** Remove and discard the plastic air deflector from the front intrusion beam.

- 10** Remove the bolt located on front intrusion beam as show in the figure.

## FITTING PROCEDURE



- 11** Fit the chassis mounting bracket on bumper mount by using two M10 bolts (M10x35x1.5), spring washer and flat washers as shown.



- 12** Insert the crush tubes into front holes of the chassis rails.

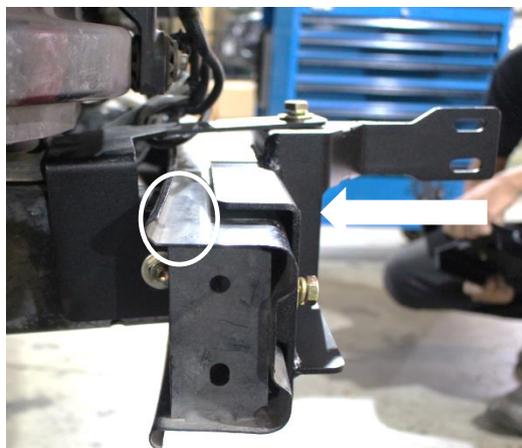


- 13** Fit the chassis mounting bracket on bumper mount by using two M10 bolts (M10x35x1.5), spring washer and flat washers as shown.



- 14** Attach support mounting bracket on the chassis mount by using M 10 bolts (M10x25x1.5), spring washer and flat washers as shown.

## FITTING PROCEDURE



- 15** Attach support mounting bracket on the chassis mount by using M 10 bolts (M10x80x1.25), spring washer and flat washers, flang nut as shown. Repeat for the opposite side



- 16** Recheck chassis Mount bracket, support bracket and tighten bolt before close bumper plastic.



- 17** Replace and connect the plastic bumper from the front intrusion beam.



- 18** Replace and connect the plastic. Be careful when assembling. With the least impact on each leg To maintain the original condition as much as possible.

## FITTING PROCEDURE



**19** Attact Main body nudge bar to mount bracket



**20** Attact bracket to Chissis mount by using M 10 bolts (M10x35x1.5 Black color), spring washer and flat washers as shown.Repeat for the opposite side



**21** Attact bracket to Chissis mount by using M 10 bolts (M10x35x1.5 Black color), spring washer and flat washers as shown.Repeat for the opposite side

## FITTING PROCEDURE



- 22** Attach Licene bracket to nudge bar by using M 6 bolts (M6x20x0.1 Black color), spring washer and flat washers as shown.

