ELITE NON LOOP WINCH BAR FITTING INSTRUCTIONS



TOYOTA FORTUNER 2015–2019

PK106FGLEDOELFTF15E_RMB_URPMB PK106FGLEDOELFTF15E_RMB_URPBO PK106FGLEDOELFTF15E_RBO_URPMB

Fitting Time : approx. 3.5 hours Elite Non loop Winch Bar Toyota Fortuner 2015-2019 SD-RD-FT/FB-08 Rev.02 (22-JAN-2024)



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 characteris-tics 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



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 visi- bility 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
- 4 Drill and metric dlirr bits
- 2 2" Masking tape 5 Test lamp or multi-meter
- 3. Marking pen
- 6. Phillip and flat head screw driver

7 Torque wrech

PARTS LIST

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

Steel Bull Bar						
Item	Component Name	Q'ty	Remarks			
1	Winch Bull Bar	1				
Chass	is Mounting Bracket	4				
Item	Component Name	Q'ty	Remarks			
2	Chassis Mount Bracket	1				
3	Chassis support bracket & Recovery(LH&RH)	2				
4	Inner mounting support bracket (RH&LH)	2				
5	Crush tube OD16x55 mm	4				
6	wing support bracke (LH/RH)	2				
7	Hex Bolt M12x35x1.25	2				
8	Hex Bolt M12x35x1.5	6				
9	Flat Washer M12	14				
10	Spring Washer M12	8	B 6			
11	Hex Nut M12x1.5	6	6			
12	Hex Bolt M10x35x1.25	4				
13	Hex Bolt M10x35x1.5	16				
14	Hex Bolt M10x45x1.5	2				
15	Hex Bolt M10x90x1.5	4	5			
16	Flat Washer M10	48				
17	Spring Washer M10	26	$\sim \delta$			
18	Hex Nut M10x1.5	22				



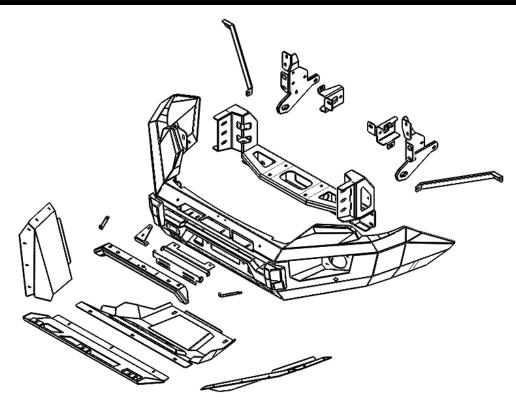
Protec	ction Plate (LH&RH)						
Item Component Name Q'ty			Remarks				
19	Protection Plate (RH)	1					
	Protection Plate (LH)	1					
	Hex Bolt M6x20x1.0	12					
21	Flat Washer M6	12					
22	Spring Washer M6	12					
		12					
24	Cage Nut M6x1.0x3T	12					
Duetos	tion Dista Contor						
	ction Plate Center	015					
Item	Component Name Protection Plate Center 01	Q'ty	Remarks				
		1					
26	Protection Plate Center 02	1	25				
27	Hex Bolt M6x20x1.0	3					
28	Flat Washer M6	3					
	Spring Washer M6	3					
30	Cage Nut M6x1.0x3T	3					
31	Hex Bolt M8x25x1.25	3					
32	Flat Washer M8	3					
33	Spring Washer M8	3					
34	Cage Nut M8x1.25x3.2T	3					
	Control Plate						
Item	Component Name	Q'ty	Remarks				
35	Winch Control Plate	1					
36	Hex Bolt M6x20x1.0	2					
37	Spring Washer M6	2	\rightarrow				
38	Flat Washer M6	4					
39	Flange Nut M6x1.0	2					
Grill B	racket (LH/RH)						
Item	Component Name	Q'ty	Remarks				
40	Grill Bracket (LH/RH)	2	40				
41	Hex Bolt M6x20x1.0	2					
42	Flat Washer M6	4	40				
43	Spring Washer M6	2					
44	Flange Nut M6x1.0	2					



Licens	License Plate Bracket								
	Component Name	Q'ty	Remarks						
45	License Plate Bracket (Inner)	1							
46	License Plate Bracket (Outer)	1							
47	Hex Bolt M6x20x1.0	4	45						
	Flat Washer M6	8							
49	Spring Washer M6	4	46						
50	Flange Nut M6x1.0	2							
51	Button Head Bolt M6x20x1.0	2							
52	Nyloc Nut M6x1.0	2							
53	Nylon Washer M6	4							
54	Flat Washer M6	4							
Senso	r plugs								
Item	Component Name	Q'ty	Remarks						
55	Sensor blanking plugs D19x10mm.	2							
56	Cable Tie (L=150)	4	55						
Fog Li	ght Bracket								
Item	Component Name	Q'ty	Remarks						
57	Hex Bolt M6x20x1.0	8							
58	Flat Washer M6 OD14	8							
59	Spring Washer M6	8							
60	Flange Nut M6x1.0	8							
Drivin	g light Bracket								
Item	Component Name	Q'ty	Remarks						
61	Driving light Bracket	1							
62	Hex Bolt M10x30x1.25	2	61						
63	Spring Washer M10	2							
64	Flat Washer M10	4							
65	Flange Nut M10x1.25	2							



Components Overview



Torque Setting of Fastener

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

Bolt Diameter	Clas	ss 8.8	Class 10.9	
(mm.)	Torque (Nm.)	Torque (ft-lb.)	Torque (Nm.)	Torque (ft-lb.)
M6	10.5	7.7	15	11.1
M8	25.5	18.8	36.5	26.9
M10	50.5	37.2	72.2	53.3
M12	88	64.9	126	92.9
M14	140	103	200	148







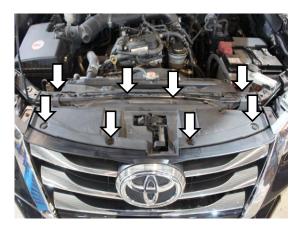
2

Locate the vehicle in a suitable position.

Rest the bullbar on a surface that will not scratch the bar.

3

Remove the clips and the bonnet that retain the grille at the top. Keep for re-fitment of grille.







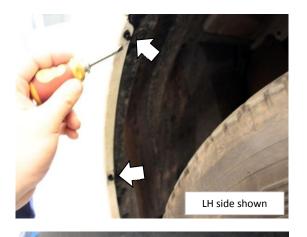
Remove the clips that retain the grille. Keep for refitment of grille



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







6 Remove and discard the screws retaining the bumper bar in the wheel arch.

Repeat for the opposite si

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

B

LH side shown

Elite Non loop Winch Bar Toyota Fortuner 2015-2019 SD-RD-FT/FB-08 Rev.02 (22-JAN-2024) Carefully remove the bumper from the vehicle. If unsure about bumper removal refer to the workshop manual.

Remove and discard the upper air guides from both sides of the vehicle.

Remove and discard the front intrusion beam. Remove and discard the outer bumper clips from the front guards.

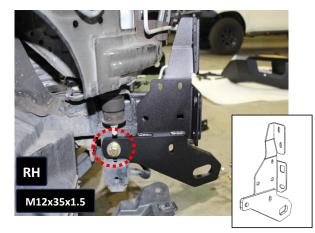
9

Remove and discard the outer bumper clips. from the front guards.











Lift the Chassis support bracket & Recovery onto the chassis of vehicle.

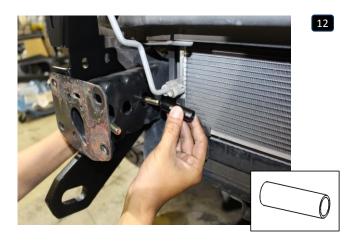
Secure with four M12 bolts (M12x35x1.5), spring and flat washers as indicator.





Elite Non loop Winch Bar Toyota Fortuner 2015-2019 SD-RD-FT/FB-08 Rev.02 (22-JAN-2024) Place two M10 bolts (M10x90x1.5) into the outer mounting support bracket with two crush tubes .





Fit into the mounting bracket through inner mounting support bracket and secure with spring, flat washers and hex nuts.





13





Secure the outer mounting bracket to Inner mounting support bracket by using one M10 bolts (M10x35x1.5), one M10 bolts (M10x45x1.5) spring , flat washers and hex nuts as shown at the circle.

Repeat for the opposite side.

14

Lift the chassis mounting bracket onto the chassis of vehicle. as shown.





- 15
- Secure with four M10 bolts (M10x35x1.25), spring and flat washers as shown at the circle.

16





Elite Non loop Winch Bar Toyota Fortuner 2015-2019 SD-RD-FT/FB-08 Rev.02 (22-JAN-2024) Secure with four M10 bolts (M10x35x1.5), spring , flat washers and hex nuts as shown at the circle.

17

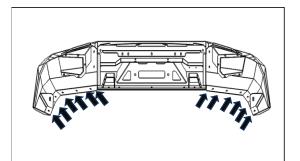
M10x35x1.5

Secure with tow M10 bolt (M10x35x1.5), spring washer, flat washer and hex nuts as shown at the circle.

18

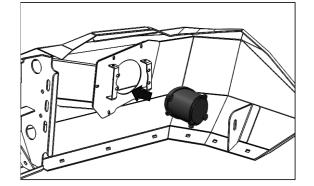
location of winch on the chassis mount bracket.



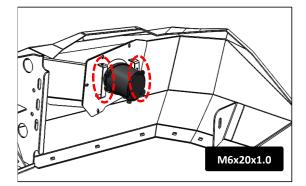


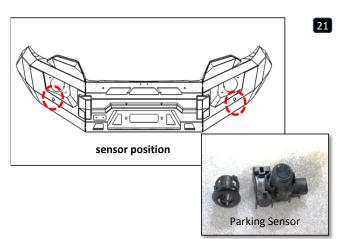
19 Insert twelve M6x1.0x3T cage nuts onto the bullbar as indicators.

20



Fit original fog light on the Fog light Bracket. using M6 x 1.0 x 20 hex bolts flat washers and Flange Nut M6.

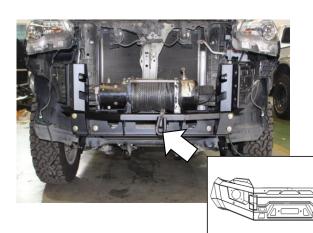




Re-install the parking sensors to the bull bar. Fit parking sensors, noting orientation, ensuring that each one "snaps" into place. as shown.

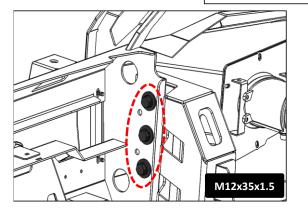
remove the original fog light from the bumper bar.





23

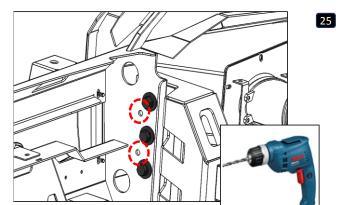
22 Lift the bullbar onto the chassis of the vehicle.



20 mm.

Secure bull bar onto the chassis mounting bracket by using three M12 bolts (M12x35x1.5), spring washers and flat washers.

- 24 Position bar onto vehicle, making sureit is centered, lining up with the wheelarch and has a 20mm gap between thequarter panel and the wing of the bar.
 - If the bar does not sit centrally across the front of the vehicle, loosen the chassismount and adjust accordingly. Tighten all bolts to the correct torque.



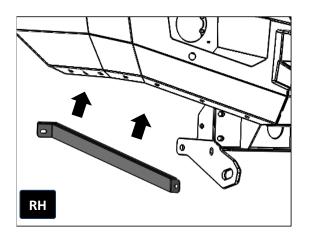
Elite Non loop Winch Bar Toyota Fortuner 2015-2019 SD-RD-FT/FB-08 Rev.02 (22-JAN-2024)

- Drill two 10 mm holes through the chassis mount bracket by using holes on the bullbar as a guide. Secure with two M10 bolts (M10x35x1.5) and

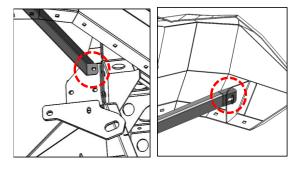
flange nuts .

Repeat the opposite side.

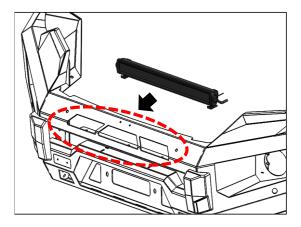




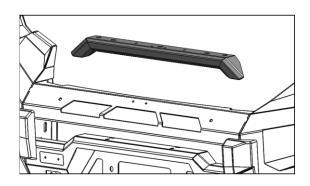
26 Place RH wing support bracket to the bullbar.



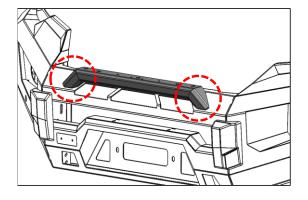
27 Secure wing support bracket to M10 bolt that fitted the outter mounting bracket by using flat washers and hex nut.



Secure the LIGHT BAR to the bull bar.
The suitable LIGHT BAR size is 21 inches.

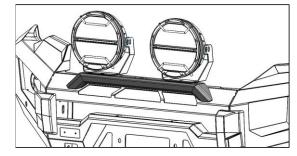






29

fix the Driving light Bracket onto the bull bar. using tow M10 bolts (M10x30x1.25), spring washers ,flat washers and Flange Nut.as shown.



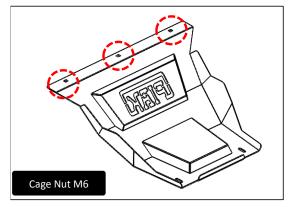


Driving light installation position.





Connect the sensor wiring harness. fog light wiring.



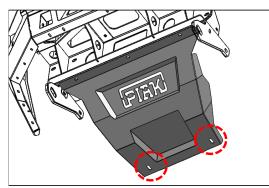


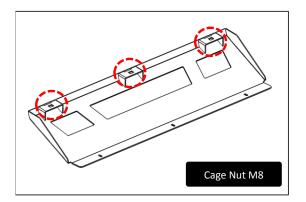
Insert three M6 cage nuts onto the Under protection plate Center (2) as indicators.





Place the center protection plate (2) onto chassis of vehicle.Use the original bolts.



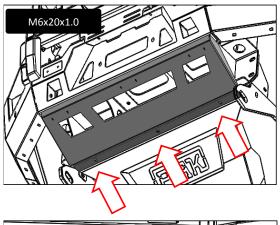




Insert three M8 cage nuts onto the Under protection plate Center (1) as indicators.







Fit the the Under protection plate Center (1) onto the Under protection plate Center (2) .Using three M6 x 1.0 x 20mm hex bolts, spring and flat

washers.

35

- M8x25x1.25
- **36** Fit the the Under protection plate Center (1) onto bull bar .Using three M8 x 1.25 x 25mm hex bolts, spring and flat washers.

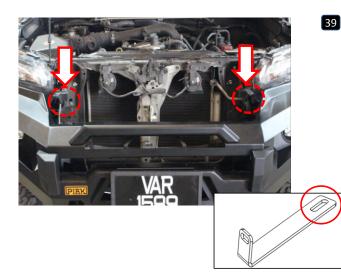
37 Fit the wing protection plate onto the bullbar.Using six M6 x 1.0 x 20mm hex bolts, spring and flat washers.

Repeat the opposite side.



Fit Front Grill Bracket on the Front Grill.use the original bolts.



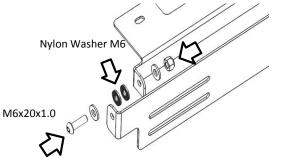


Fit Front Grill Bracket on the vehicle.using M6 bolt (M6x20x1.0), spring washerand flat washer as shown at the circle.



Re-fit the front grill by using the original bolts and clips removed earlier.

Re-fit the plastic cover attached to thegrille by using the original screws and clips.





40

Assemble License plate bracket by using two M6 button head, flat washer, Nylon Washer M6 and nyloc nut as shown. Do not fully tighten.



Assemble License plate bracket by using two M6 button head, flat washer, Nylon Washer M6 and nyloc nut as shown. Do not fully tighten.

Fit License plate bracket on the bull bar.using tow M6 bolt (M6x20x1.0), spring washer, flat washer and Flange Nut. as shown at the circle.



