



FITTING INSTRUCTIONS

Product: T15 SIGNATURE Frontal Protection System

Vehicle: Nissan Navara D23 NP300

Part No. 070AP15N10R – T15 Signature

Australian Standards Relating to Installing Vehicle Frontal Protection Systems (VFPS): AS 4876.1-2002

- a) Do not attach V.F.P.S. to vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts), other than those specified by the V.F.P.S. manufacturer in this instruction.
- b) Do not use this product for any vehicle make or model other than those specified by the V.F.P.S. manufacturer (as above).
- c) Do not remove any plaques or labels from the V.F.P.S.
- d) Do not modify the structure of the V.F.P.S. in any way.

- **Before commencing fitment read instructions and ensure all listed components are supplied.**
- **Left hand & right hand components are determined as seated in the vehicle.**
- **The fitment of TJM products does not nullify the OE manufacturer's operating guidelines and/or warnings. Ensure you are familiar with and adhere to the usage instructions specified by the manufacturer in the owner's manual or other official documentation.**
- **Check for (and remove) any build up in all threads fitted to the product.**
- **Ensure that the "Rated Recovery Point Label" is affixed alongside the compliance label in the driver's side doorjamb.**
- **When fitting accessories to TJM products (ie. driving lights and aerials), ensure suitable washer plates are used under the mounting surface that allow the accessory to be secured in a way that prevents it from damaging the product.**
- **Where OE air guides require trimming, ensure minimal clearance between air guides and TJM components to prevent air leakage which may adversely affect vehicle cooling.**
- **When removing protective coatings, ensure all new edges are deburred, clean any swarf from the area and apply rust preventative to exposed surfaces.**
- **Always place the product on a soft work space to prevent damage prior to installation.**
- **Be aware that a number of government / fleet departments require that the tow points be painted red.**

For product warranty please refer to our website www.tjm.com.au



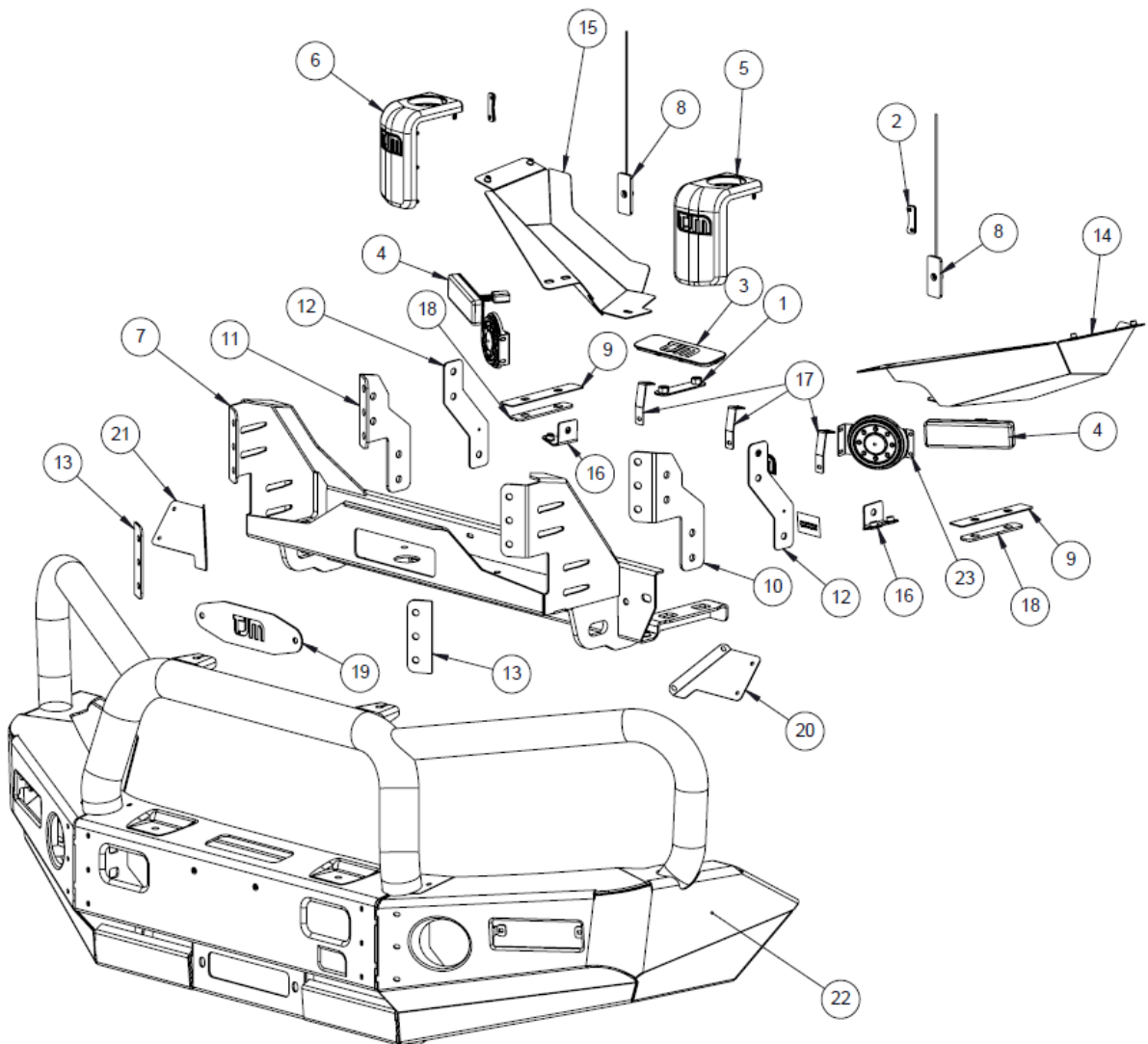
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Bolt tensions	Dia. (mm)	Nm	ft.lbs	Dia. (inch)	Nm	ft.lbs
All bolt tensions are as follows unless otherwise specified.	5	5	4	1/4"	9	7
	6	9	7	5/16"	22	15
	8	22	16	3/8"	33	27
	10	44	32	7/16"	55	43
	12	77	57	1/2"	86	66



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Item No.	Description	Qty	Part Number
PARTS LIST			
22	T15 Signature FPS	1	F-5186
7	Chassis Mount / Winch Frame	1	F-5117
FITTING KIT			
11	Clamping Angle RH	1	F-5491R
10	Clamping Angle LH	1	F-5491L
15	Outer Guard RH	1	F-5526R
14	Outer Guard LH	1	F-5526L
19	Fairlead Cover Plate	1	F-5953
4	LED Parker/Indicator	2	92600
3	Winch Slot Cover Plate	1	92106
N/A	Pinch-Weld (900mm)	1	K3219
12	Clamping Washer Plate	2	F-5492
13	Washer Plate	2	F-5506
9	Chassis Spacer	2	F-5478
16	Wing Guard Mount Angle	2	F-5527
17	Air Guide Support	3	F-5781
18	Washer Plate	2	F-5786
21	Wheel Liner Bracket RH	1	F-5997R
20	Wheel Liner Bracket LH	1	F-5997L
6	Bumperette RH	1	F-2854R
5	Bumperette LH	1	F-2854L
23	Foglight Blanking Cover	2	92091

Item No.	Description	Qty	Part Number
1	Fastener Assy	1	87553
8	Nut-Plate Assembly	2	F-5455
2	Fog-Light Washer Plate	4	88057
N/A	TJM LOGO Sticker	1	K3183
N/A	Recovery Point Sticker	1	HC0064
N/A	Recovery Point User Guide	1	F-1768
N/A	Bumper Trim Templates	1	F-5988-T
N/A	Nylon Plug	4	K0665
BOLT KIT			
N/A	M6 x 1.0 Flange Nut	38	K3033
N/A	M6 x 1.0 x 20mm Hex Head Screw	28	K0550
N/A	M6 x 12mm x 1.6mm Flat Washer	14	K0897
N/A	M6 Spring Washer	6	K0915
N/A	M6 x 18mm x 1.6mm Flat Washer	14	K2905
N/A	M8 x 1.25 x 25mm Hex Head Bolt	8	K0553
N/A	M8 Spring Washer	8	K0620
N/A	M8 x 24mm x 2mm Flat Washer	8	-
N/A	M12 x 1.25 x 35mm Hex Bolt	12	K0570
N/A	M12 x 1.25 x 40mm Hex Bolt	8	K0571
N/A	M12 x 1.25 x 50mm Hex Bolt	4	K0572
N/A	M12 Spring Washer	10	K0977
N/A	M12 x 32mm x 2.5mm Flat Washer	38	K0638
N/A	M12 x 1.25 Nyloc Nut	14	K1200
N/A	M10 x 1.5 x 25mm S.S. Socket Head Button Screw	2	-
N/A	M10 x 1.5 Flange Nut	2	-

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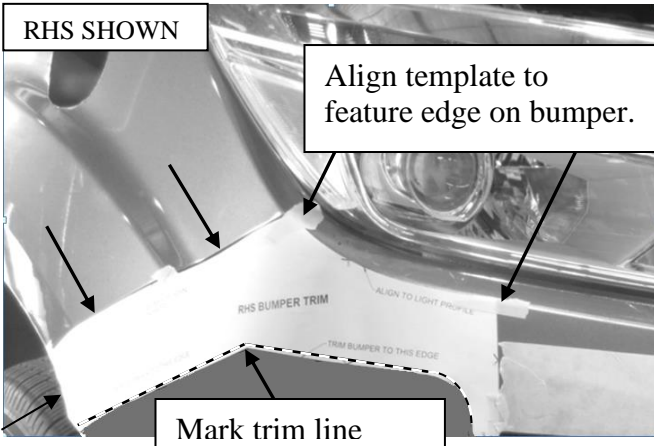
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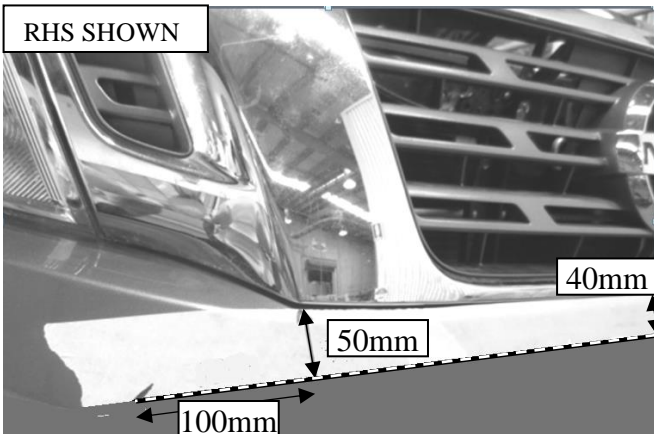
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1. Remove number plate mounting block from the front of the bumper & discard.



2. Cut out the trim templates & align to vehicle as shown. Tape securely in place.
3. Mark bumper trim line on lower edge of template.
4. Repeat opposite side



5. Measure and mark a point 50mm down from grill corner as shown both sides.
6. Measure and mark a point 40mm down in the center from grill lower edge.
7. Mark horizontal line across bumper face between the three points. Continue line past outer points approximately 100mm on both sides.

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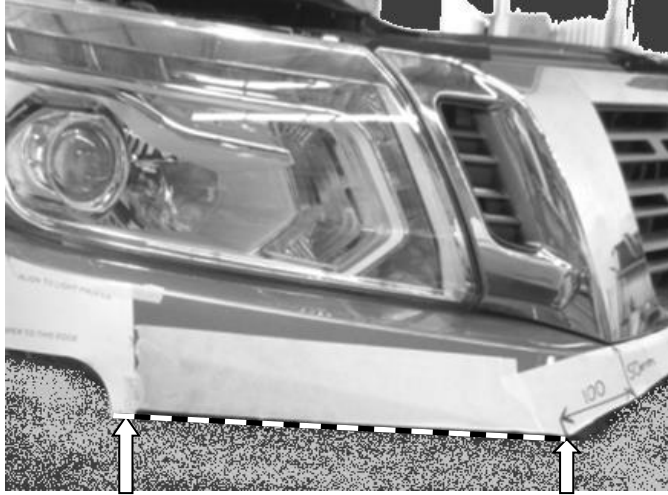
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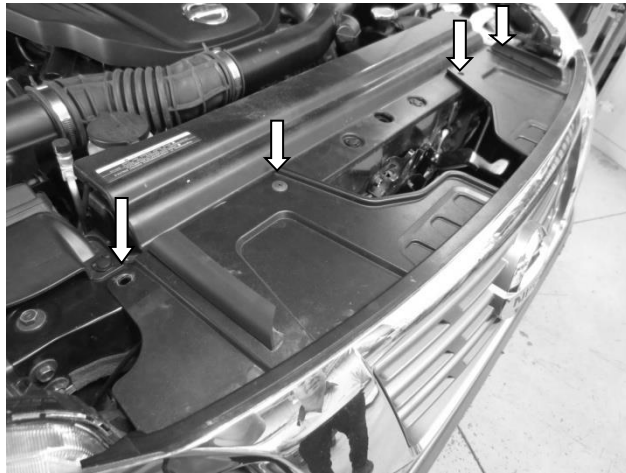
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8. Mark a straight line from corner of template to end of marked line from previous step.
9. Repeat opposite side



10. Remove (& retain) the four plastic clips securing the upper part of the grille to the vehicle.

RHS SHOWN



11. Using a flat blade screwdriver, release the four plastic clips (two either side) securing the grille at the front.

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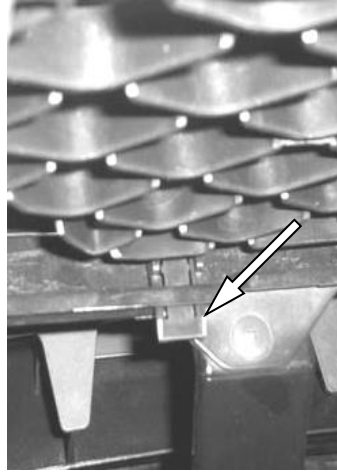
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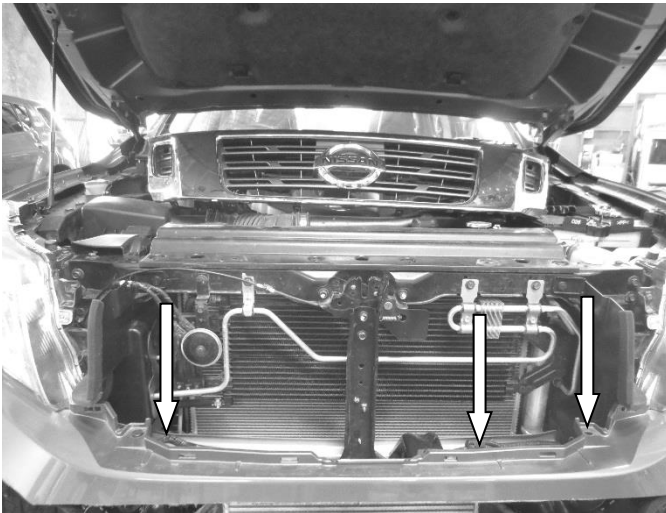
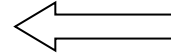
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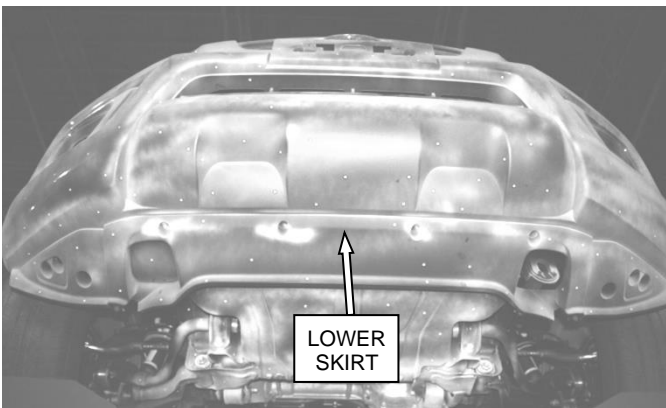
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12. Carefully tilt the grille forward & release the six clips securing the grille to the bumper.
13. Remove & retain the grille, storing it carefully.
14. Remove the clips from the radiator support and refit to grill ready for reassembly.



15. Remove (& retain) the three newly exposed clips along the top of the bumper.



16. Remove (& discard) the bolts from the lower skirt of the bumper.
17. Remove (& discard) the lower skirt.
18. Remove (& discard) the bolts securing the lower bumper to the underbody guard.
19. Remove (& discard) the screws securing the inner guard to the bumper.

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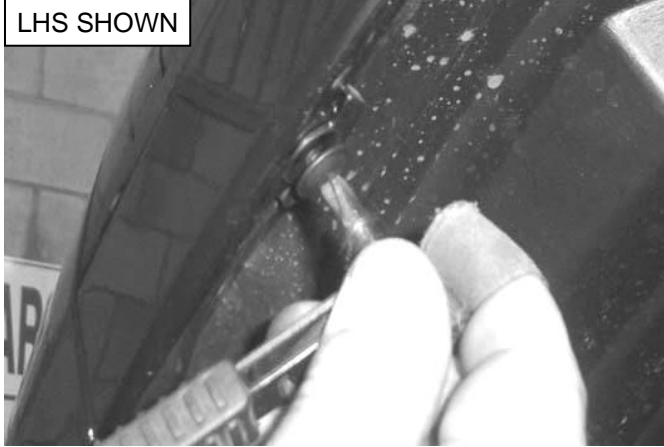
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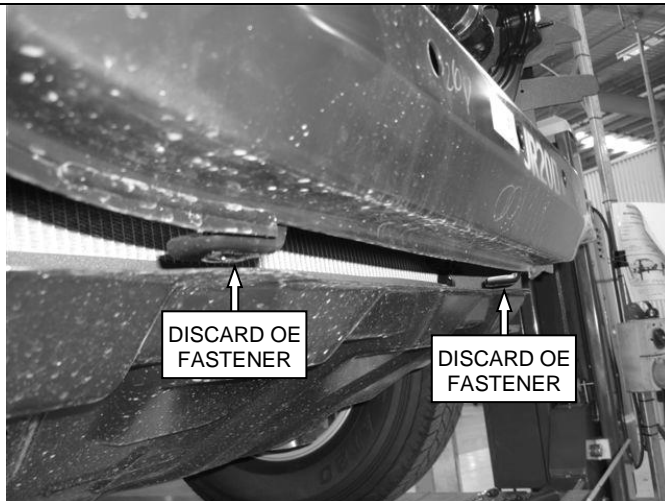
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LHS SHOWN



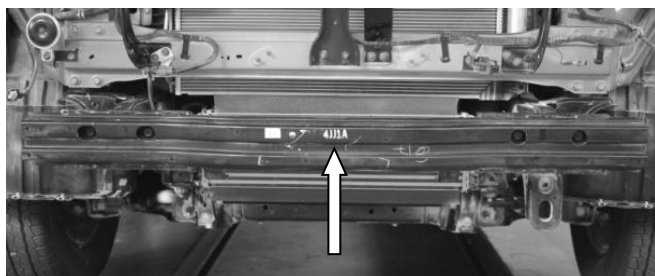
20. From inside the wheel arch, remove (& retain) the two screws located at the front.
21. From inside the wheel arch, remove (& retain) the screw located at the top.
22. From inside the wheel arch, remove (& retain) the two inner guard clips.
23. Repeat the three previous steps for the opposite side.



24. If fog-lights are installed, disconnect the wiring harness from the fog-lights.

The O.E. Fog-lights are not required for the installation of this FPS.

25. Remove (& Retain) Bumper.
26. Remove (& retain) the underbody guard from the vehicle, retaining the rear fasteners but discarding the front fasteners (as indicated).



27. Remove & retain lower air dam and fasteners above the intrusion beam. (leave side air dams in place)
28. Remove the four M12 bolts securing the front intrusion beam to the chassis rail end plates, and then discard the front intrusion beam & fasteners.

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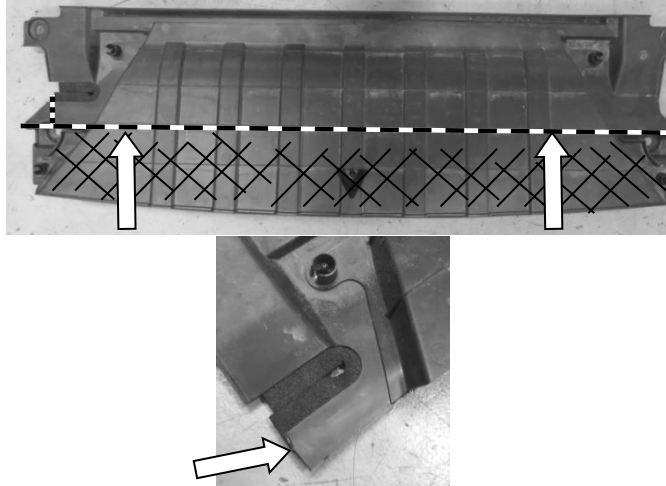
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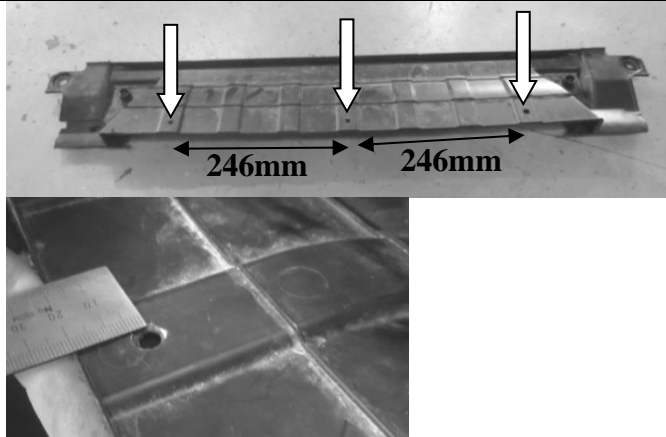
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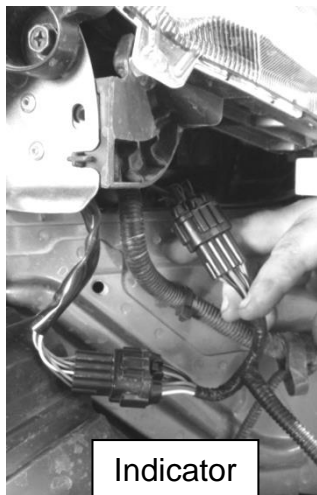
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- 29. Trim lower air dam on mold feature line as shown.
- 30. Trim end tag also.



- 31. Drill a 6mm hole 20mm in from trim edge at centre line.
- 32. Drill 2x 6mm holes 246mm out from centre on both sides 20mm in from cut edge.
- 33. Replace Air dam back in position on vehicle. Refit original fasteners to remaining original positions on chassis rail at rear of the air dam.



Indicator



Park Light

- 34. Temporarily connect the supplied indicator/park. Check the operation then disconnect.

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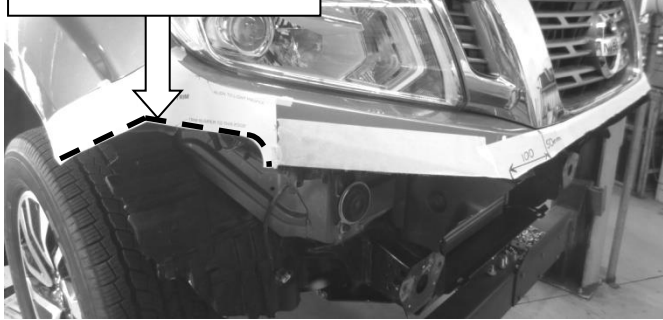
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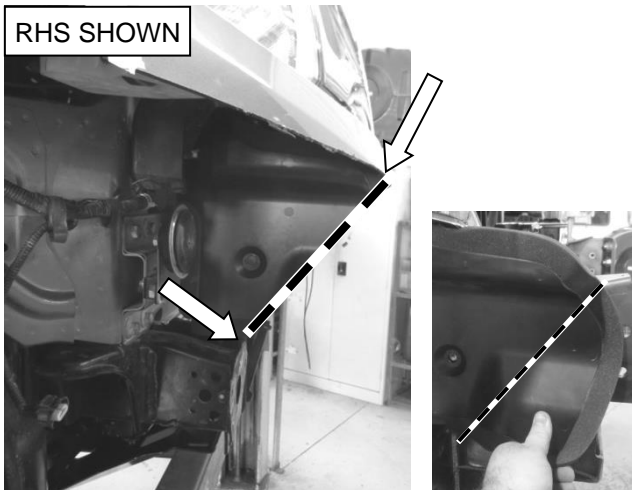
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Fit pinch weld here.



35. Apply masking tape or similar to the marked bumper around cutting areas. Carefully trim the bumper to previous markings and deburr edges.
36. Refit the trimmed bumper and secure with original fasteners.
37. Fit pinch weld to the outer trimmed area of the bumper (where shown).
38. Re-fit the grille and fasteners to the vehicle

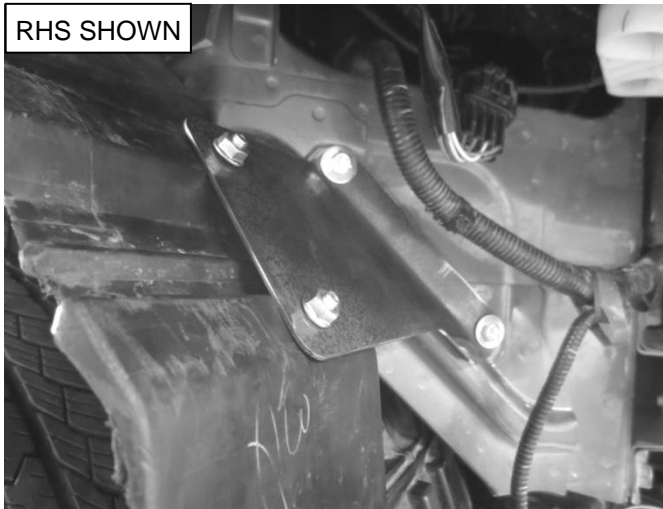
RHS SHOWN



39. Mark a straight line from the point where the air dam meets the trimmed bumper to the top edge of chassis end flange. Trim side air dams.

Repeat on LHS.

RHS SHOWN



40. Fit wheel liner bracket to radiator support using M6 x 1.0 x 20mm hex bolts (2), M6 x 12mm flat washers (2) & M6 Flange nuts (2).
41. Fit wheel liner up to original position without twisting, drill matching holes in liner. (Liner will try to hang down. Lift till it is hidden inside trimmed bumper in wheel arch).
42. Using M6 x 1.0 x 20mm hex bolts (2), M6 x18mm Flat washers (2) & M6 Flange nuts (2).

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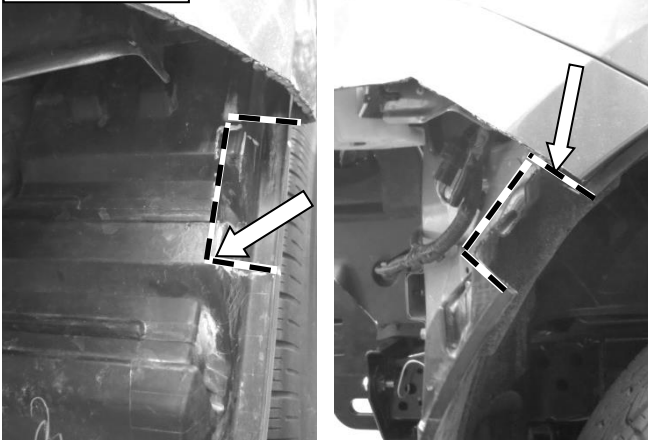
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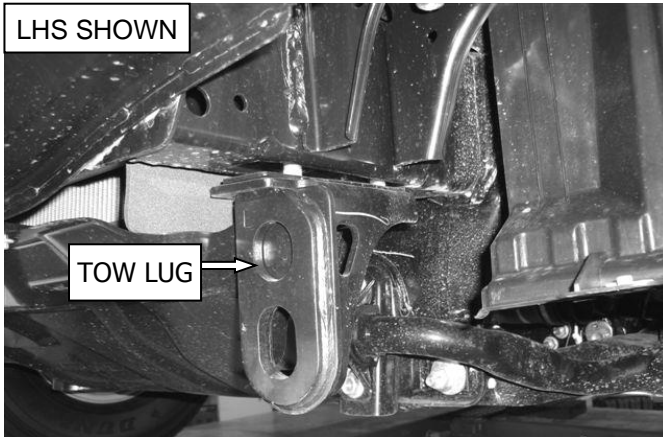
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LHS SHOWN



43. Mark a rectangular section using corner feature shown, up flush to Bumper trimmed edge. Trim as shown.

LHS SHOWN



44. Remove & discard the tow lug, retain fasteners.

RHS SHOWN



45. Insert the M12 nut-plate (87553) into the right hand chassis rail, through the hole in the chassis rail end plate, & position it over the two holes located in the underside of the chassis rail.

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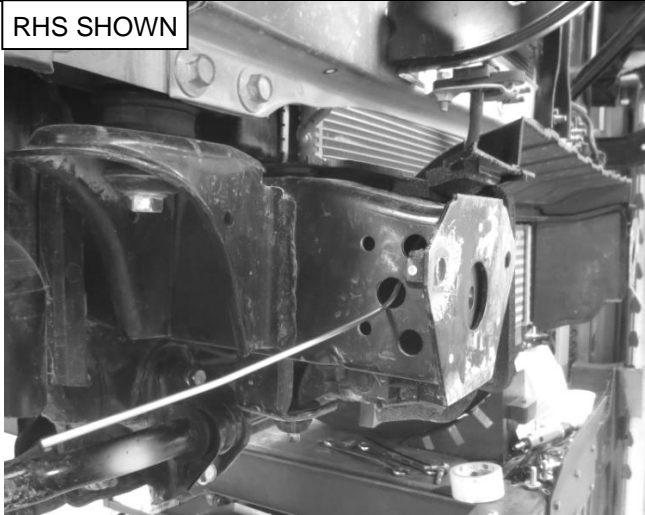
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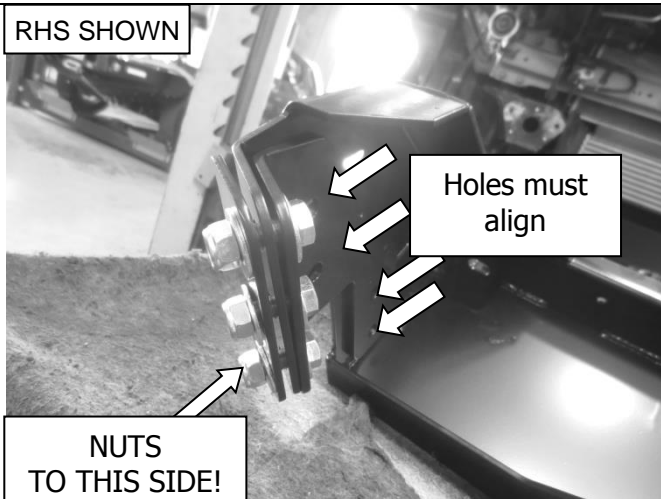
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RHS SHOWN



46. Using M12 nut-plate assembly (F5455).
47. Insert a M12 nut-plate assembly into each of the chassis rails, through the hole in the chassis rail end plate, so that the wire protrudes through the larger hole in the outside of the chassis rail and the plate is vertical.
48. Position both of the M12 nut-plate assemblies so that they sit flat against the inside face of the chassis rail end plate, over the entry hole.

RHS SHOWN

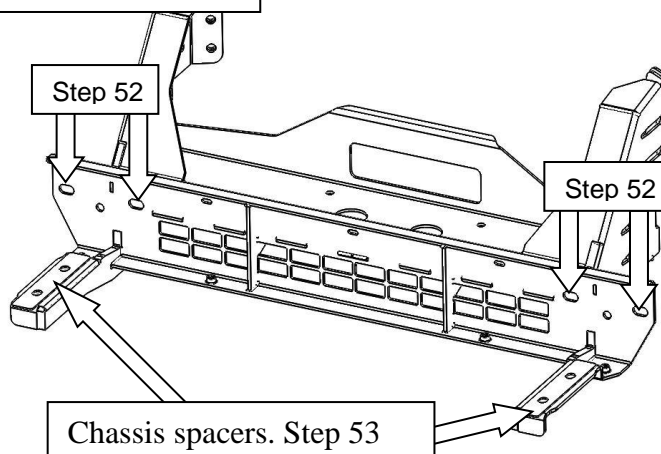


49. Fit "Clamp Angle's" to inboard face of "Winch Frame" and "Washer Plate's" to front using M12 x 1.25 x 35mm bolts (6), M12 x 32mm x 2.5mm Flat Washer (12) & M12 nyloc nuts (6).

Important – fit M12 Bolt assembly with nuts to front "Washer Plate" face.

50. Align Plates with existing holes and tighten to specified torque. Check holes and slots align after tightening to allow easy bolt fitment/clearance.

VIEW FROM REAR



51. With the assistance of another person, carefully lift the chassis mount into position.
52. Loosely secure the chassis mount in place, using M12 x 1.25 x 35mm hex screws (4), M12 x 32mm x 2.5mm Flat Washer (4) & M12 spring washers (4) to the fixed nuts in the end of the chassis rail.
53. Position "Chassis spacers" between mount and chassis align with holes in chassis.

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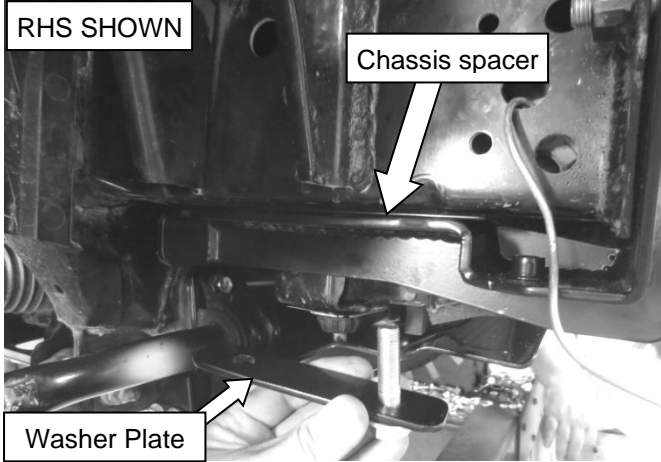
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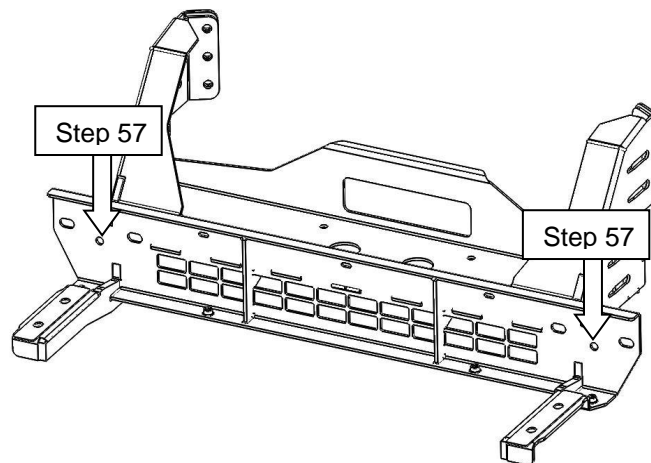
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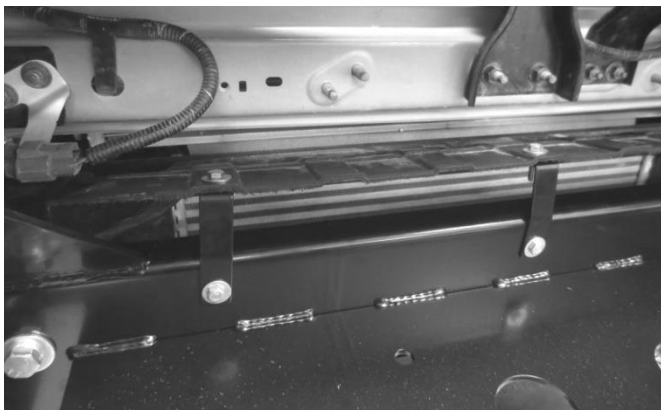
RHS SHOWN



54. Using M12 x 1.25 x 50mm hex bolts (2) with "washer plate", M12 x 32mm x 2.5mm Flat Washer (2) & M12 spring washers (2) loosely fasten RH side into nutplate inside chassis.
55. Repeat on LHS. Using Retained OE Bolts (2) with M12 x 32mm x 2.5mm Flat Washer (2) & M12 spring washers (2) into original nuts located in chassis.
56. Centralize and tighten to specified torque with the frame pushed hard rearwards against chassis rail ends.



57. On both sides, fit M12 x 1.25 x 35mm hex screws (2), M12 x 32mm x 2.5mm Flat Washer (2) & M12 spring washers (2) into the M12 x 1.25 Nut-plate on Wire installed in Step 47. All other fasteners are secured to the captive nuts installed in the vehicle.
58. Tighten all fasteners in chassis end to specified torque.



59. Secure lower air dam to "Winch Frame" using 3x "Air guide support" Using M6 x 1.0 x 20mm hex bolts (6), M6 x18mm Flat washers (6) & M6 Flange nuts (6).

Note – Use Ø18mm OD flat washers on Plastic side.

If fitting Winch, it is to be done at this point!

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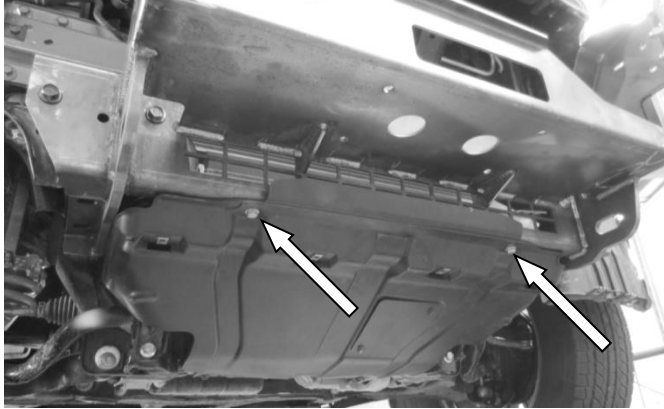
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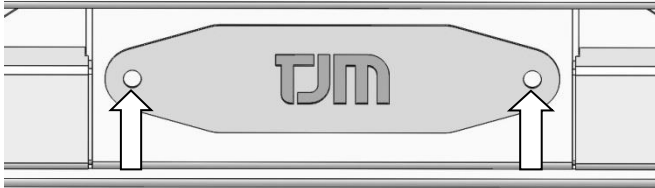
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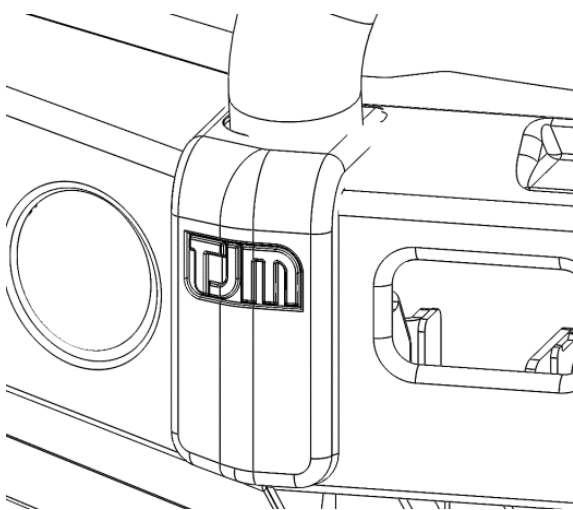
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60. Re-fit the underbody guard to its original position, securing it at the rear using the fasteners retained from removal & securing it to the "Winch Frame" using M8 x 1.25 x 25mm hex bolts (2), M8 spring washers (2) & M8 x 24mm flat washers (2).



61. If winch is not fitted mount the "Fairlead cover plate" to the FPS using M10 x 1.5 x 25mm S.S. Socket Head Button Screw (2) M10 Flange Nuts (2).



62. Secure both bumperettes to the FPS using M6 x 1.0 flange nuts (16).

Be aware the some manipulation of the bumperettes may be required.

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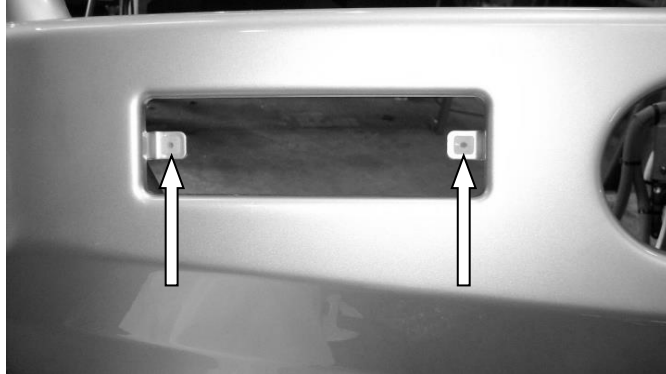
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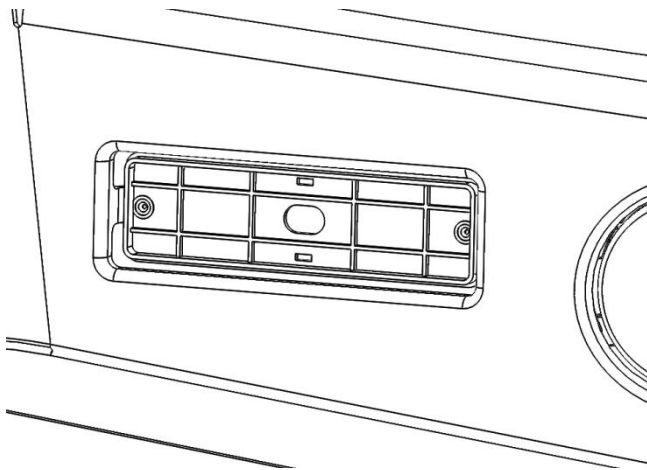
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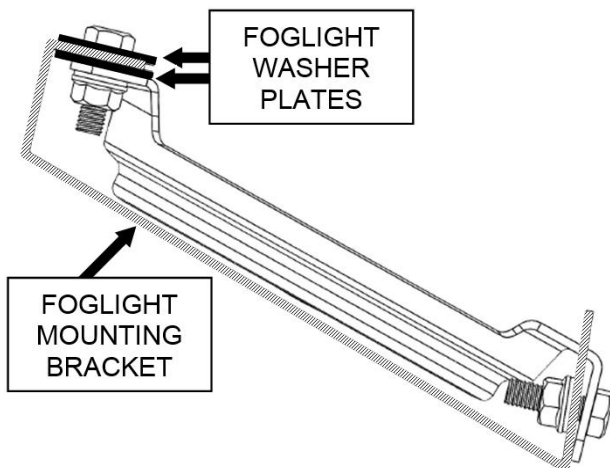
63. Insert the nylon plugs supplied into the holes for the indicators (as shown).



64. Separate the indicator/park light body from the backing plate.
65. Secure the backing plate, using the screws provided with the light assemblies.
66. Supporting the backing plate, re-fit (clip) each indicator / park light body (ensuring that it is completely attached).

Park light is to be fitted towards the outside of the vehicle.

67. Repeat the previous steps for the opposite side of the FPS.



If an optional foglight kit has been purchased, install it now, referring to the instructions provided with the kit.

Otherwise, follow the below steps to install the provided foglight blanking covers.

68. Sandwich the foglight mounting bracket between the foglight washer plates.
69. Position the foglight blanking cover as shown opposite.

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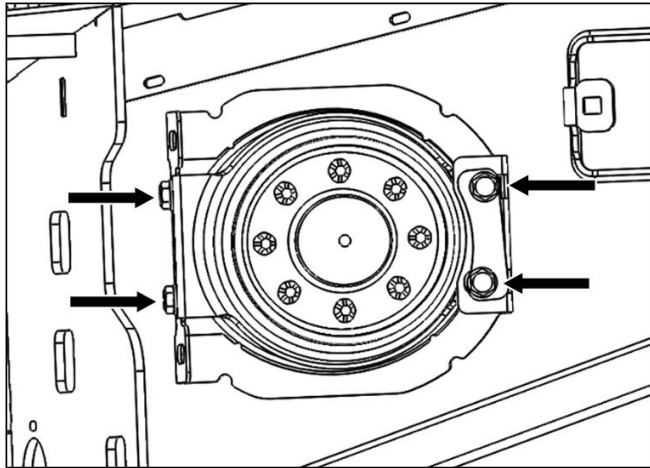
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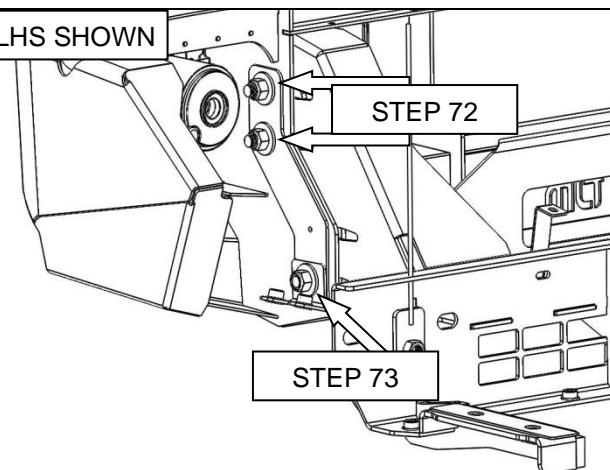
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70. Using M6 x 1.0 x 20mm hex head screws (4), M6 x Ø12.5mm flat washers (4) and M6 x 1.0 flange nuts (4), secure the foglight blanking cover to the foglight mounting bracket.

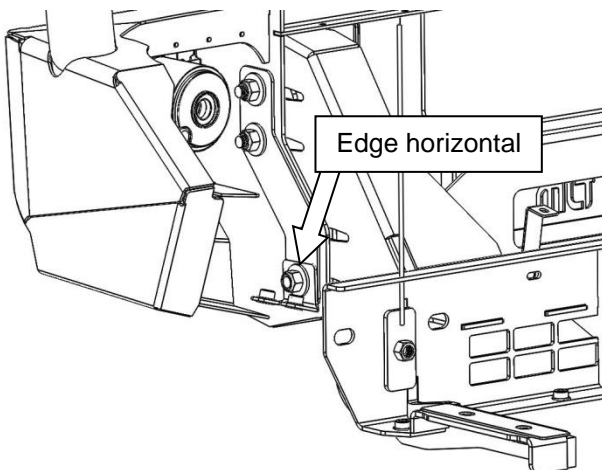
71. Repeat the three previous steps for the opposite side of the FPS.

LHS SHOWN



72. With assistance of another person, lift the FPS into position & secure in place using "Clamping Washer Plate" M12 x 1.25 x 40mm bolts (4), M12 x 32mm x 2.5mm Flat Washer (8) & M12 nyloc nuts (4) at the two upper locations.

73. Loosely fit M12 x 1.25 x 40mm bolts (2), M12 x 32mm x 2.5mm Flat Washer (4), "wing guard mount angle" (2) & M12 nyloc nuts (2) at the lower location.



74. Align the FPS, and then tension all of the fasteners to the appropriate torque settings. (Align wing guard mount angle top edge to be horizontal)

75. Connect the indicator / park lights to the vehicle wiring.

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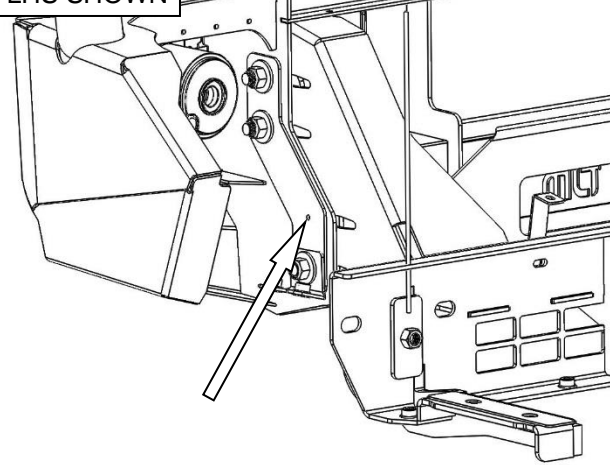
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76. Using the indicated hole in the FPS as a template, drill a 12mm hole through the mounting on both sides.
77. Deburr the holes & clean the area/surface of any swarf/debris, then treat the raw exposed surfaces with a rust preventative.
78. Fix using M12 x 1.25 x 40mm hex bolts (2), M12 x 32mm x 2.5mm Flat Washer (4) & M12 nyloc nuts (2).

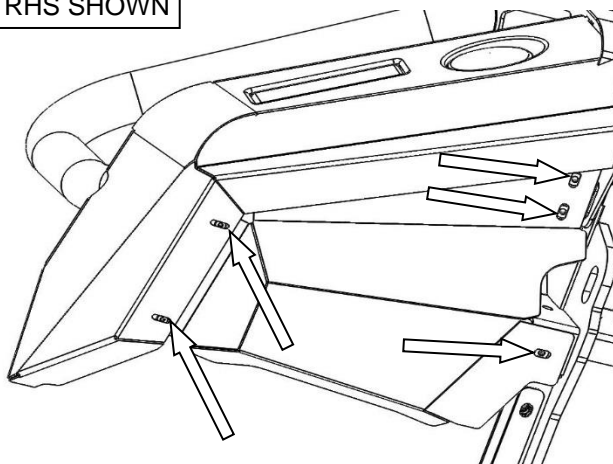
RHS SHOWN



79. Connect the indicator/park lights to the vehicle.
80. Temporarily locate the "Outer Guard" to FPS in correct position with fitting holes aligned.
81. Mark and trim Wheel liner to achieve a desirable fit inside the "Outer guard" and FPS as shown.

Repeat on LHS

RHS SHOWN



82. After Wheel liner trimming is complete.
83. Place the outer guard in position (as shown) & secure it in place, at the indicated positions
84. Use M6 x 1.0 x 20mm hex bolts (2), M6 spring washers (2) & M6 x 18mm Flat Washer (2) on outer position.
85. Use M8 x 1.25 x 25mm hex bolts (3), M8 spring washers (3) & M8 x 24mm flat washers (3) on inner position.

Repeat on LHS

For product warranty please refer to our website www.tjm.com.au



FITTING INSTRUCTIONS

Product:

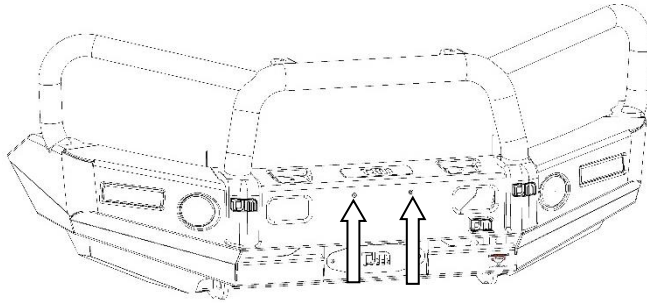
T15 SIGNATURE Frontal Protection System

Vehicle:

Nissan Navara D23 NP300

Part No.

070AP15N10R – T15 Signature



86. Using M6 x 1.0 x 20mm hex bolts (2), M6 x 12mm flat washers (2) & M6 spring washers (2), secure the number-plate in place.
87. Place the winch slot cover in place in the winch viewing hole.
88. Check the operation of the indicators, park lights, fog-lights, winches, etc and ensure that they are functioning correctly.
89. Ensure that all fasteners are tightened to the appropriate torque settings. Ensure no vehicle components are crushed or will chafe.

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