

Fitting Instructions:

AA.FRNG - FORD RANGER 2023 NEXT GEN 60L

DATE: 27/03/2023

PART NO: AA.FRNG

FITTING INSTRUCTIONS:



DANGER! WHILE WORKING WITH FLAMMABLE LIQUID AVOID FLAMES, SMOKING AND GRINDING SPARKS WITH FUEL PRESENT BE PREPARED WITH SUITABLE FIRE EQUIPMENT ON HAND.



1. Remove spare wheel.
2. Remove spare wheel plastic guide - **PHOTO 1**
3. Remove LHS passenger side rear wheel arch cover - **PHOTO 2**
4. Remove chassis crossmember rubber.
5. Loosen spare wheel anti-theft cable - **PHOTO 3**
6. Remove filler hose from metal filler neck and main tank inlet.
7. Fit 8mm tank insert into main tank, refer to photo. Make sure you take precautions not to hook the sender unit and bend it - **PHOTO 4**
8. Fit the 32mm Y-Piece in the rubber filler hose, refer to photos - **PHOTO 5**
9. Fit the front angle bracket by using existing hole in chassis. Make sure the O.E wiring harness doesn't get caught behind the bracket or will shave against the bracket. You will need to remove the wiring harness from chassis by pulling out the plastic locator clips. Using the M8X90 bolts, fit the angle bracket. DO NOT TIGHTEN THIS BRACKET - **PHOTO 6**
10. Fit the rear s/steel brackets to the back of the chassis. There are guiding holes in the chassis which you would need to drill through the chassis - **PHOTO**
11. Bolt these two brackets to the chassis using the M8X100 bolts, fender washers and nyloc nuts.
12. Fit the 12mm fuel line 1.4m long to the front tank. To ensure easy fitment.
13. Push the front tank in position and fit the two bolts M8X25 through the tank to the angle bracket bolted to the chassis - **PHOTO 8**
14. Fit the RHS rear M8X60 bolt, spring washers and fender washer through the tank bracket, this lines up with the existing hole in the cross member. DO NOT TIGHTEN THESE BOLTS - **PHOTO 9**
15. Refit the filler neck assembly with the 32mm Y-Piece, make sure all clamps are tightened - **PHOTO 10**
16. Fit the 32mm filler hose from the Y-Piece (filler) to the welded T-Piece on the front tank - **PHOTO 11**
17. Push the middle tank up in position, the spare wheel mechanism chain or cable need to go through the centre hole of the middle tank. Bolt the tank to the cross member by using the OE holes in cross member, make sure you use the M8X60 bolts - a longer bolt will rub through the tank and cause a leak. Bolt the previously removed spare wheel anti-theft cable to cross member (Refer to photo) using a M8X30 bolts, nyloc nuts and flat- and fender washers. DO NOT TIGHTEN THESE BOLTS AS THEY WILL LINE UP WITH THE REAR TANK BRACKETS - **PHOTO 12**

18. Fit the 32 mm filler hose to the middle tank filler by cutting it 75mm long. Once you fit the rear tank you would then push this 32mm fuel hose over the rear tank filler (Inlet) - **PHOTO 13**
19. Push the rear tank up in position ensuring the 32mm filler hose slides over the filler pipe on the middle tank. Fit the bolts to the rear brackets going through the s/steel bracket on chassis previously fitted to the vehicle. Make sure the spare wheel rod still fits. All the mounting points on the tanks should now have bolts but not tightened - **PHOTO 14**
20. Fit the 12mm hose to the front tank, this will go above the wheel arch to the filler neck - **PHOTO 15**
21. Fit the 32mm filler hose from the outlet of the welded-on T-Piece on the tank. Make sure all hoses at this stage are properly clamped - **PHOTO 16**
22. Fit the 6mm outlet pipe from the main tank remember fuel filter. (Previously fitted 8mm tank insert) to the front outlet on the tank. On the LHS of the tank will be another 8mm outlet that joins to the middle tank. Refer to PiD Drawing - **PHOTO 17**
23. Moving to the middle tank you must fit the 12mm hose to breather joining to the 12mm universal T-Piece, refer to PID drawing. On the RHS of the middle tank is another breather that must go above the tank joining to the universal T-Piece refer to PiD - **PHOTO 18**
24. Fit another 12mm hose to the rear tank breather also joining the universal T-Piece, refer to PiD - **PHOTO 19**
25. Once all the 12mm breathers have been fitted to the aux tanks there should be two breathers running above the wheel arch towards the filler - **PHOTO 20**
26. These two 12mm hoses will join the universal T-Piece fitted to the O.E. plastic breather - **PHOTO 21**
27. This breather will be extended with rubber hose rolled up (do not kink) and tightened as high as possible next to the filler - **PHOTO 22**
28. Make sure all clamps are tightened.
29. Check and tighten all bolts.
30. Refit the inner wheel arch.
31. With 3 separate tanks fitted to this vehicle make sure the pipe doesn't rub against any moving part or sharp edges.
32. See photo of pinch weld installation on rear tank bracket as the vehicle harness could rub there if not loosened and zip tie out of the way of the tank - **PHOTO 23**
33. Before you refit the spare wheel, you would need to refit the front chassis cross member rubber as this will fit on the bolt holding the tank in position and will avoid these bolts damaging the spare wheel and alternatively rubbing through the sidewall of the tyre - **PHOTO 24**

PACKING LIST:

ITEM	DESCRIPTION	✓	QUANTITY
A	PACKING LIST		1
B	STAINLESS STEEL TANK		3
C	32X32X32 Y-PIECE		1
D	32MM STRAIGHT HOSE		1M
E	M8 FLATBAR NUTS		5
F	M8X60 BOLTS		5
G	8MM FLAT WASHERS		5
H	8MM SPRING WASHER		5
I	8MM FENDER WASHER		5
J	FRONT ANGLE BRACKET		1
K	REAR S/STEEL BRACKETS		2
L	12X12X12X12 UNIVERSAL TT PIECES		2
M	12MM FUEL LINE		6M
N	6MM FUEL LINE		800MM
O	FUEL FILTER		1
P	PINCH WELD		500MM
Q	LONG ZIP TIES		6
R	M8X30 BOLT, NYLOC NUT AND FLAT WASHER (CABLE)		1
S	M10X90 BOLT, NYLOC NUT AND FENDER WASHER		2
T	M8X25 BOLT, NYLOC NUT AND MEDIUM WASHER (FRONT BRACKETS)		2
U	M8X100 BOLT, NYLOC NUTS AND FENDER WASHERS (REAR BRACKETS)		2
V	30-45 HOSE CLAMPS		6
W	12-22 HOSE CLAMPS		12
X	8-12 HOSE CLAMPS		6
Y	TANK INSERT 8MM		1
Z	CO2 WIRE (FITTING OF TANK INSERT)		1

PACKED BY: _____

CHECKED BY: _____

DATE: _____

TANK SERIAL NO: _____

Photo 1



Photo 2



Photo 3



Photo 4

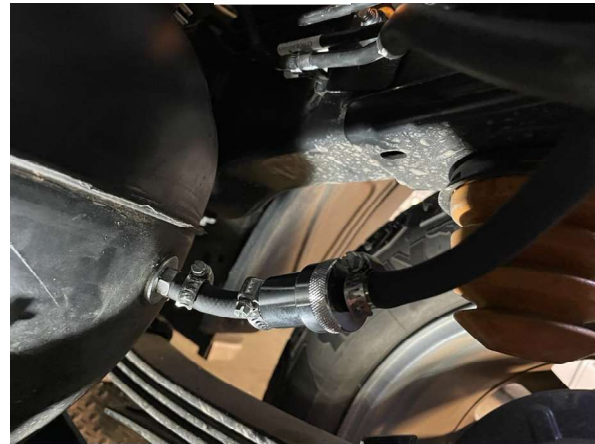


Photo 4



Photo 5



Photo 6



Photo 6



Photo 6



Photo 6



Photo 6



Photo 7



Photo 7



Photo 7

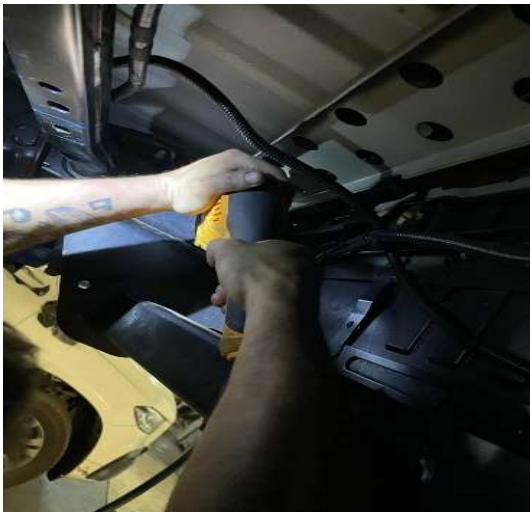


Photo 8



Photo 8



Photo 9



Photo10



Photo10



Photo10



Photo10

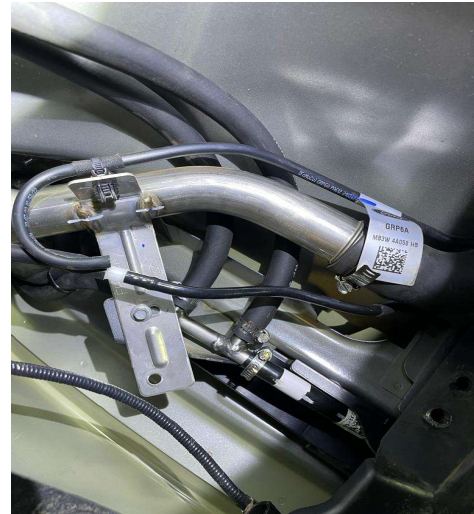


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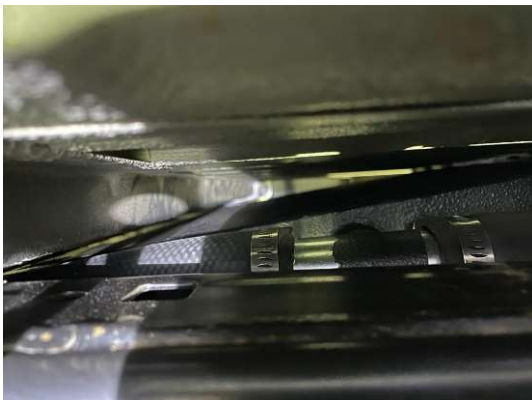


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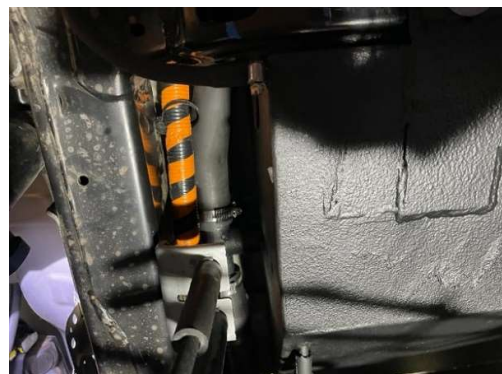


Photo12



Photo12



Photo12

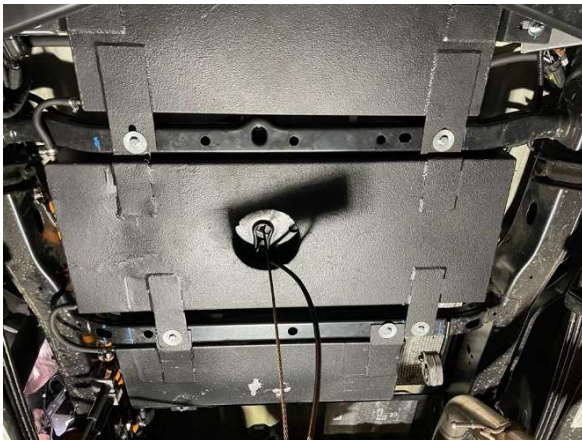


Photo12



Photo13



Photo14



Photo14



Photo14

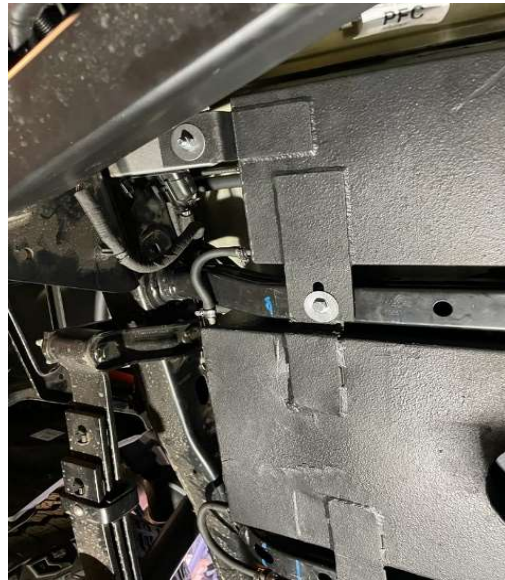


Photo14



Photo15



Photo15



Photo15



Photo16



Photo17



Photo17

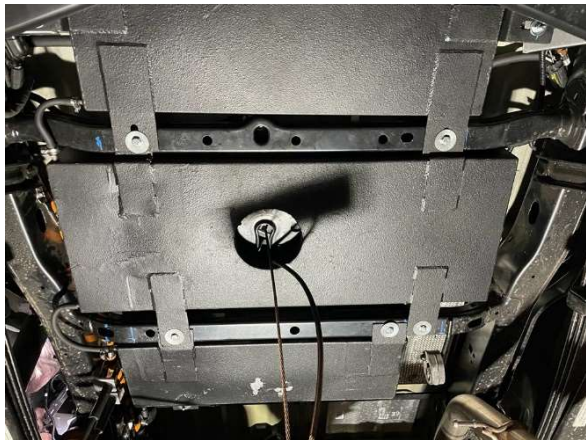


Photo17



Photo17



Photo18



Photo18

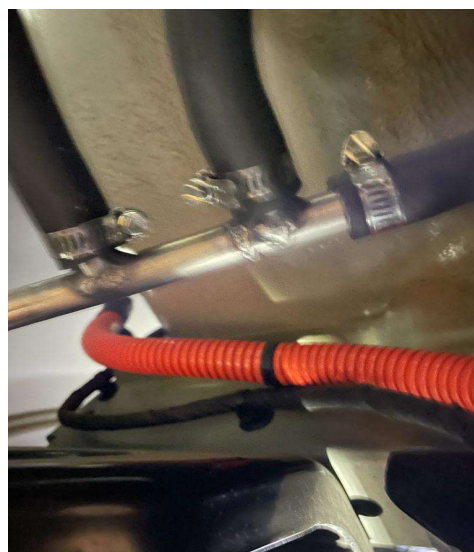


Photo18



Photo19



Photo20



Photo20



Photo20



Photo20

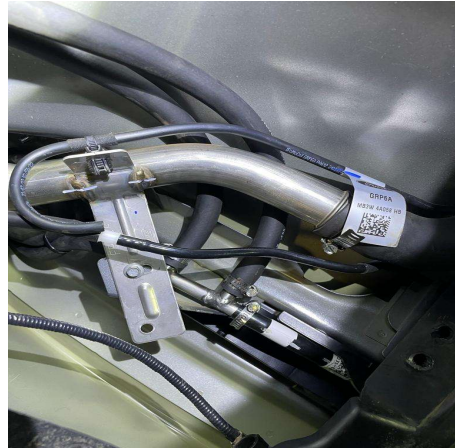


Photo21



Photo21



Photo21



Photo22



Photo23



Photo23



Photo23

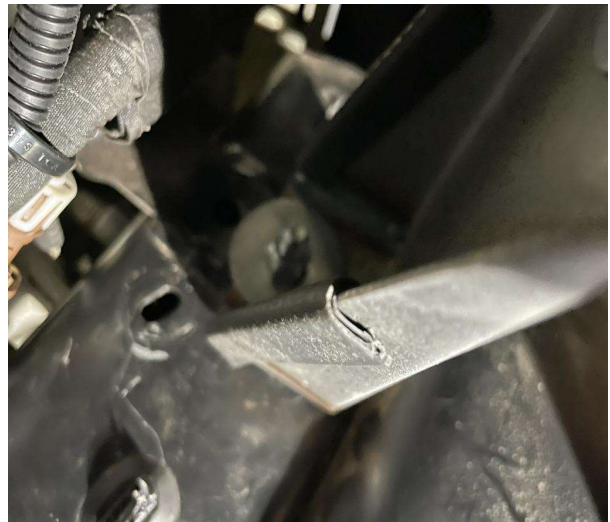
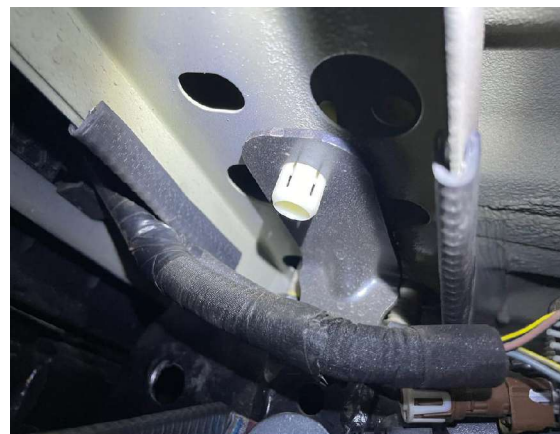


Photo23



Photo23



Maintenance of Long-Range Fuel Tank:

1. After the first 1000 Kilometres, clean or replace the fuel filter if fitted, check that there is no rubbing or chafing of the tank, fuel hoses or associated components.
2. At each of the vehicle manufacture's recommended services, check all the bolts, nuts and clamps of the long-range fuel tank fitted.