



FITTING INSTRUCTIONS FOR

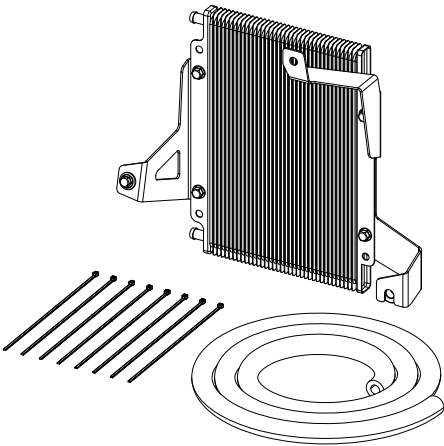
Transmission Cooler Kit

SKU

KS0971

COMPATIBILITY

Toyota Prado 250



Included contents

QTY	COMPONENT	QTY	COMPONENT
2	Transmission Cooler Bracket (LHS & RHS)	5	M6 x 16 Flanged Hex Bolt
1	Tru-Cool Transmission Cooler Kit	8	Cable Ties
1	Transmission Cooler Hose	1	M10 Fine Serrated Flange Nut
1	M6 x 18 x 1.5 Flat Washer	2	M10 x 30 Flanged Hex Bolt



Time

1 Hour / One beer

Scan the **QR code** to watch the video installation guide,
or for further information contact KAON on **07 3180 1470** or info@kaon.com.au



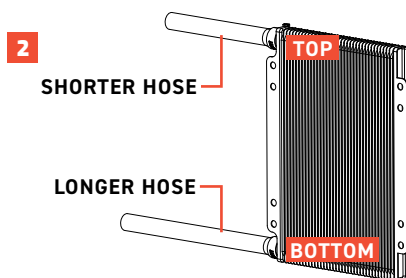
G8.8 Bolt Torque (Non-Lubricated)

DIAMETER (mm)	5mm	6mm	8mm	10mm	12mm
NEWTON-METRES (Nm)	6 Nm	10 Nm	15 Nm	22 Nm	35 Nm

Let's get to work.

Preparing the Transmission Cooler

1. First we need to connect the hoses to the Cooler Core. The kit includes two hoses. You will need to cut down the longer hose to 1050mm. The other will be 700mm.
2. With the cooler core mounting flanges facing towards you, slide the provided clamps over the hoses and connect them to the hositails. The shorter hose should connect to the top, and the longer hose to the bottom.
3. Tighten the hose clamps to ensure the hoses are secured to the core.



ORIENTATION IN THE VEHICLE



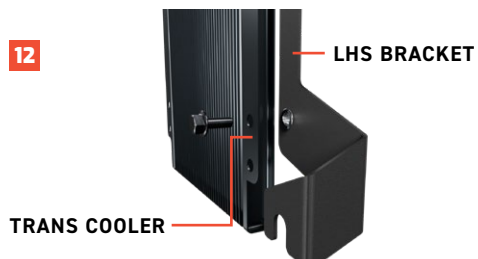
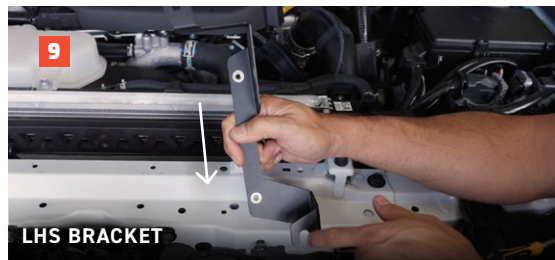
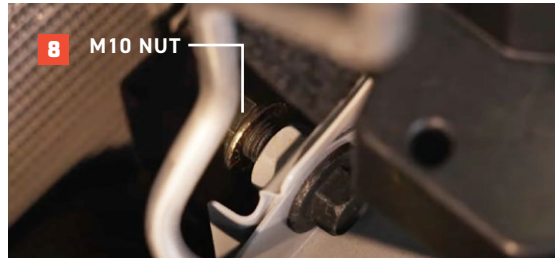
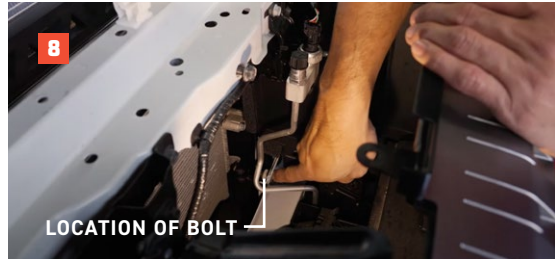
Preparing the Vehicle

4. Remove the front engine bay cover by pushing down on each of the clips holding it in place.
5. Use a 12mm socket to remove the bolt securing the horn to the cross member. Unclip the horn and set aside.
6. Once the horn is removed, replace the 12mm bolt loosely.
7. Next, remove the central plastic trim piece behind the bonnet latch by using a pry tool to pop up the clips securing it to the cross member. Push to one side.



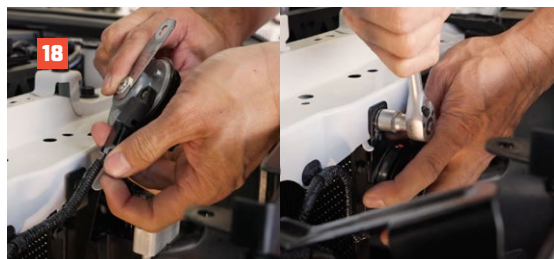
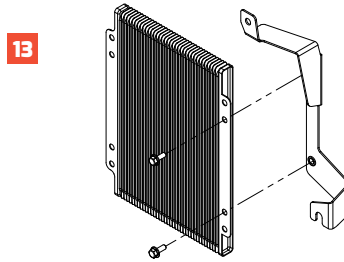
Installation

8. For our LHS/ AU passenger side bracket, we need to locate a bolt thread on the lower cross member, in front of the radiator. Wind on the provided M10 fine flanged nut by a few threads, ensuring that you leave a gap between it and the factory nut.
9. Next, take the LHS / AU passenger side bracket (pictured) and slide the slotted end over the thread, between the cross member and M10 nut.
10. Using the 12mm bolt that retained the horn, loosely secure the top of the bracket to the cross member.
11. Next, slide the Transmission Cooler Core and hoses in between the cross member and the radiator, in the orientation pictured. Take care to avoid damaging the vehicle or the radiator fins.
12. For the core to be in the correct position, the left mounting flange of the cooler should be sitting in front of the passenger side bracket.



Installation cont.

13. Loosely secure the core to the bracket by using the supplied M6 bolts.
14. Now you can install the RHS / AU Drivers side bracket. Locate the cross-member's vertical central support as pictured.
15. Place the single bolt opening side of the RHS bracket behind the central support's lower mounting position. Secure with a supplied M6 bolt and washer.
16. Secure the RHS bracket to the Cooler Core with the remaining two M6 bolts. The bracket should once again be sitting behind the mounting flange of the core.
17. Confirm the location of the core and brackets. Tighten all bolts and nuts to the recommended torque settings, starting with the M6 bolts. You will need a 15mm open spanner for the M10 nut.
18. Place the horn back into position by removing the factory bolt and sandwiching it over the LHS bracket. Tighten until secure.



Running the Hoses

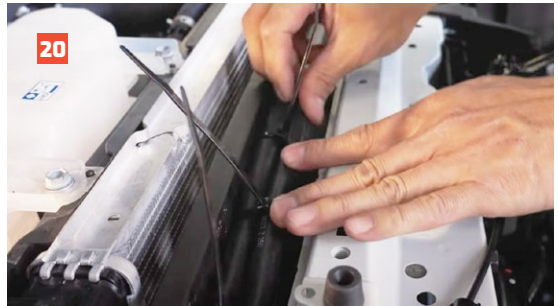
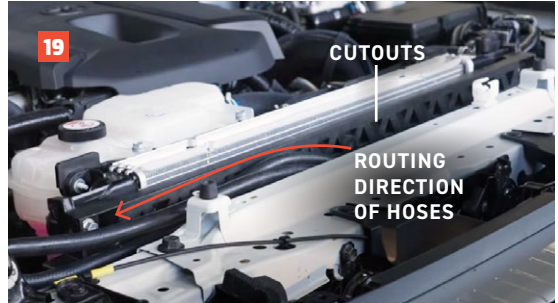
19. In front of the radiator, there is a plastic cross-member/support. We will use this to route the hoses across to the radiator inlet and outlet.

Using the provided cable ties, secure the top (shorter) hose to this, before securing the second hose by piggybacking it off the first.

Ensure both hoses are firm and do not come into contact with any sharp edges. Ensure they are nested into the recess sufficiently to allow the plastic trim to be reinstated above.

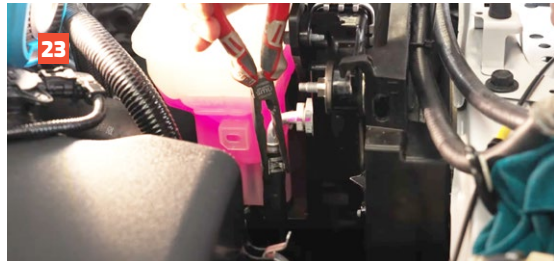
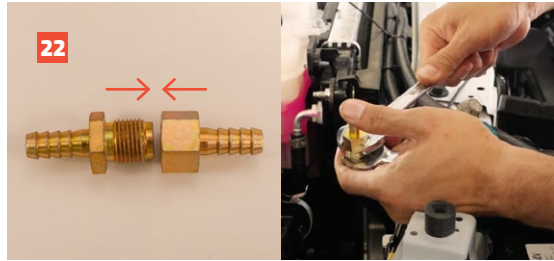
20. Use additional cable ties to run both hoses along the plastic cut outs, toward the radiator inlet/outlets. We also recommend using a cable tie to secure the bottom hose to the front of the thermo fan.

21. Before attaching the cooler hoses to the vehicle, it is necessary to top up the transmission fluid to accommodate for the increased volume and longer lines of the cooler. Using a funnel, fill the open end of the hose line with approximately 200ml – 300ml of transmission oil, until the lines are full. We provide two M10 bolts to allow you to temporarily plug these lines after filling.



Running the Hoses

22. Take the hoesetail fittings included in the Tru-Cool Transmission Cooler Kit and thread them together to create a joiner. Tighten them to create a secure sealed connection.
23. Locate the outlet on the factory transmission cooler. Using pliers, loosen the hose clamp and remove the return hose. It may leak slightly, so remove it slowly.
24. Insert one end of the hoesetail joiner into this return hose and reinstate the clamp to secure.
25. Take the bottom (longer) hose running from the TruCool Cooler Core and a hose clamp. Connect this hose to the factory outlet, and secure with the clamp.
26. Connect the remaining shorter hose to the other end of the hoesetail joiner, using another hose clamp to secure it in place.
27. Confirm placement of all hoses, ensuring that there are no kinks and that they do not make contact with any sharp edges. Use any remaining cable ties as needed, and trim the tails once they are secure.
28. Start the car's engine, and check there are no leaks coming from any of the installed hoses or connections.
29. With this confirmed, you can now re-install the remaining engine bay trim.
30. That's it, you're done!





Local Knowledge & Assistance

We know half the fun of building your dream 4x4 is getting your hands dirty. But we also know that sometimes, things don't go to plan. If in the pursuit to build the ultimate setup you find yourself off-track, we're here to help you get unstuck.

For further information call 07 3180 1470 or email info@kaon.com.au

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