



FITTING INSTRUCTIONS FOR

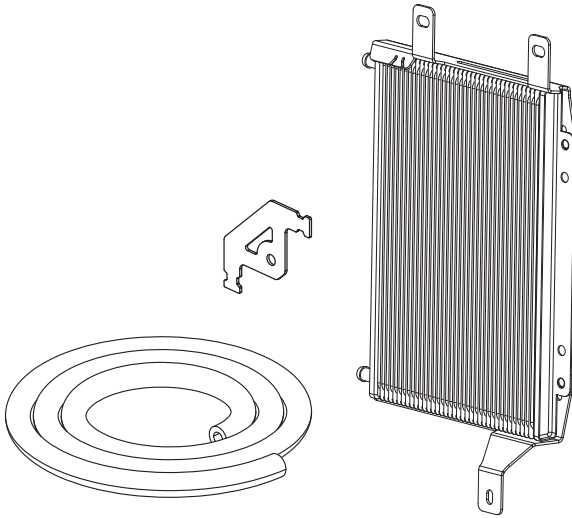
Transmission Cooler Kit

SKU

KS0766

COMPATIBILITY

Toyota Prado 150



Included contents

QTY	COMPONENT	QTY	COMPONENT
2	Transmission Cooler Brackets	5	M6 x 12 Flanged Bolt
1	Hose Manager Bracket	4	M6 Flanged Nyloc Nut
1	Transmission Cooler Kit	6	Large Black Cable Ties
1	Rubber Hose	1	Small Black Cable Tie
		1	M10 x 20 Button Head Socket Screw



Time

2 hours / 2 beers

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



Bolt Torque

DIAMETER (mm)	5mm	6mm	8mm	10mm	12mm
NEWTON-METRES (Nm)	5 Nm	9 Nm	22 Nm	44 Nm	77 Nm

Let's get to work.

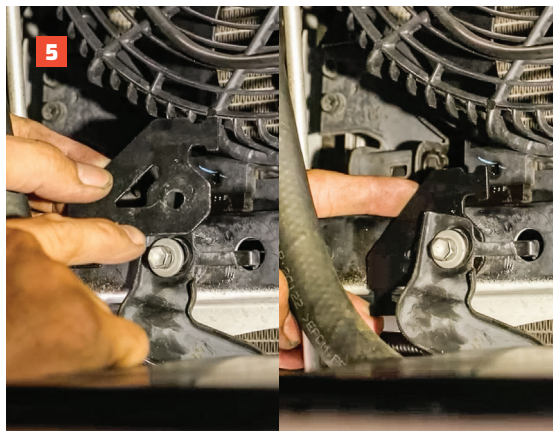
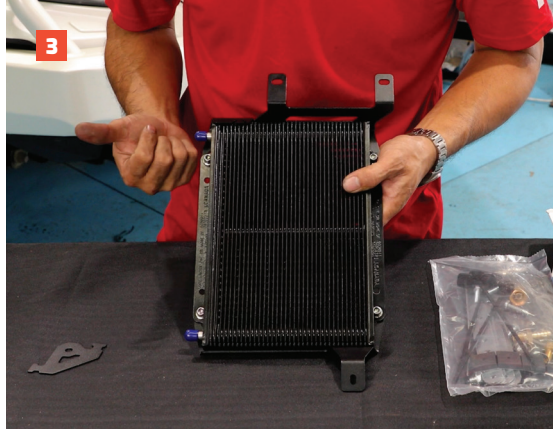
Vehicle Preparation

1. Remove the plastic trim in the front of the engine bay covering the radiator, then remove the passenger side grill support arm and factory horns. Let the horns hang gently out of the way.
2. Next remove any splash guards, as well as any underbody guards from the front underside of the vehicle.



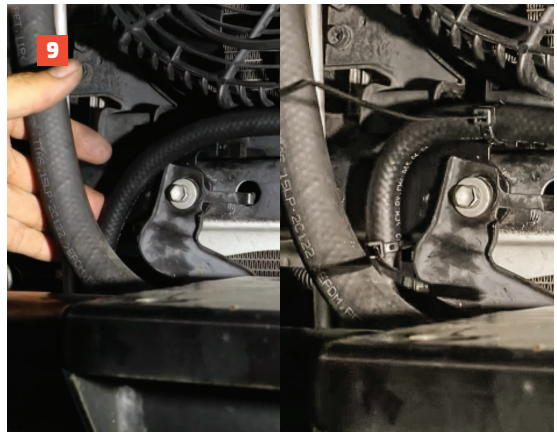
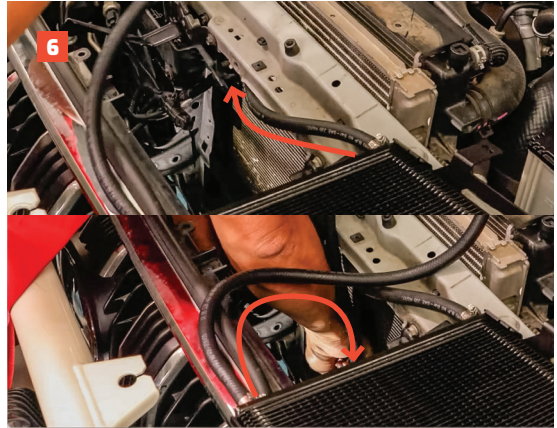
Cooler Kit Preparation

3. Attach the Transmission Cooler brackets to the supplied cooler; the brackets should sit behind the cooler in the orientation pictured. Using the supplied M6 bolts and nuts, feed the bolts through from the bracket side and fasten the nuts on the cooler side. This orientation is important as it will affect radiator clearance.
4. Remove the dust caps from the cooler, and attach a separate hose on each end. Fasten to the cooler using the supplied hose clamps. Tighten the hose clamps now, as access will be difficult once in the vehicle.
5. Before installing the cooler, install the supplied hose routing bracket to the vehicle. This bracket sits behind the factory aircon line mount, and reuses the factory bolt, as pictured. Ensure the notched standoffs sit clear of the crossmember, as these will be used for zipties.



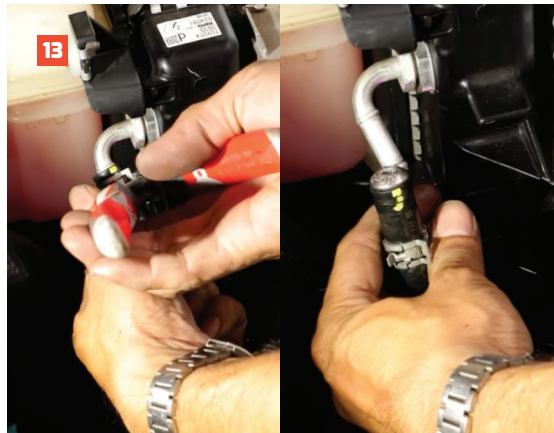
Installation

6. With the cooler prepared, feed each of the hoses through the radiator core support. The upper hose sits above the aircon condenser, and is routed towards the upper drivers side of the radiator. The lower hose sits behind the core support upright, routing underneath the thermo fan and towards the bracket installed previously. See image for the correct orientation.
7. Reattach the factory horns in front of the cooler brackets, to hold the cooler in place.
8. Using the supplied M6 bolt, attach the lower bracket to the vehicle's crossmember.
9. Using the large cable ties, secure the lower hose to the vehicle on the bracket installed initially. Ensure the hose has a smooth path without kinks, and has some slack. The cable ties should sit in the narrower section of the stand offs, and when tightened, hold the hose in place.
10. There is a wiring loom adjacent to where the upper hose emerges, next to the factory coolers and behind the core support. Use a large cable tie to secure the upper hose to this.



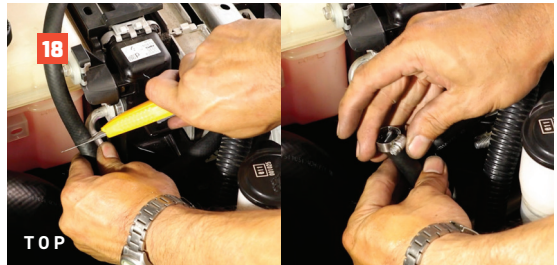
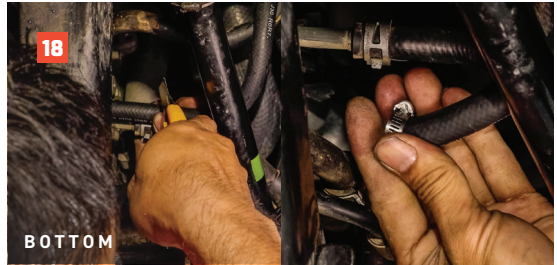
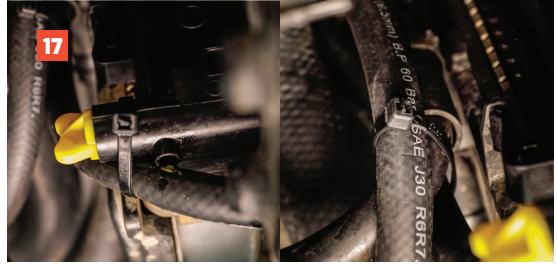
Installation cont.

11. Using a small flathead screwdriver or trim tool, unclip the two factory transmission cooler hose clips on the top and underside of the vehicle, as picture. Move the hoses aside.
12. Using a pair of pliers, loosen the hose clamp holding the factory hose to the top fitting on the radiator.
13. Slide the factory hose off the fitting. To minimise any fluid spillage, insert the supplied M10 dome head bolt into the factory hose. Secure the bolt in place by temporarily fastening the hose clamp around the M10 bolt.
14. On this same factory hose, there will be a connector about halfway down, with a small bracket and M6 bolt attaching the factory hose to the radiator. This will also need to be removed and is best accessed from below the vehicle. Once the M6 bolt is removed, the hose can be pulled down and pushed aside out of the way. Leave the remaining end of the hose connected to the transmission.
15. Locate the lower cooler hose we routed in step 9. Thread it through the gap, below the radiator but above the cross member. Feed the hose upwards towards the fitting where the factory hose was just removed.



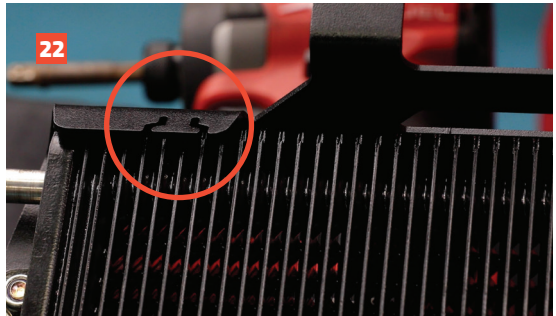
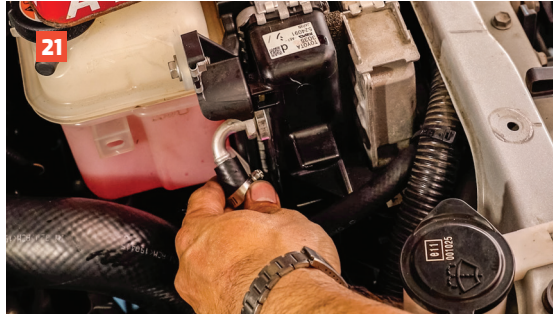
Installation cont.

16. Feed the upper hose from the cooler downwards, towards the pipe from the transmission that the factory hose is still attached to.
17. With the hoses roughly in position, reattach them to the factory clips and use the remaining large cable ties to secure them. Make sure they're not rubbing on any sharp edges or in the way of moving parts.
18. With the hoses secured in position, trim the ends to align with the fitting at the top of the radiator, and at the transmission inlet pipe. Once cut, put one of the supplied hose clamps over the end of each hose.
19. Starting with the underside of the vehicle, remove the hose clamp attaching the factory hose to the transmission inlet. Working quickly to avoid oil spillage, slide the factory hose off, and remove it entirely. Replace with the new cooler hose, and fasten the hose clamp over the fitting.
20. Before attaching the final hose to the radiator, 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.



Installation cont.

21. Slide the final hose over the fitting on the radiator, then tighten the hose clamp to secure.
22. There is a wiring loom adjacent to the upper cooler bracket, near the horns. Using the smaller cable tie, fasten the top hose to the pictured cable management slots on the cooler.
23. Check all hose clamps, bolts and cable ties and ensure they are completely fastened, and that the cable ties are sitting flush. Trim any excess from the cable ties.
24. Start the cars engine, and check that the oil is flowing correctly and there is no leaks coming from any of the installed hoses.
25. With all fasteners tight and no leaks present, you can now re-install the grill support arm, engine bay trim, as well as the underbody guards.
26. That's it, you're done!
With your Transmission Cooler Kit installed, you can now hit the open road with piece of mind.





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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