Fitting Instructions Part № **49469K** 

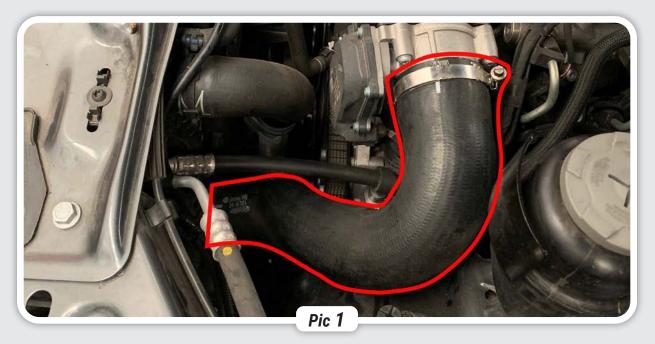


Kit contains:

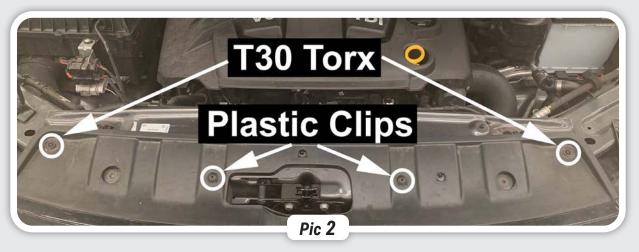
- Cooler Bracket with cooler fitted
- 1 pair VW Amarok Custom Unions
- 2.5m x Cooler Line Hose with Conduit
- Union Retaining Clip
- T30 Torx Bolt
- 4 x 8-16 Screw Clamps

- Endcap O-Ring
- Brass Slug
- Thermostat Spring
- Aluminium Pipe Clamp
- Instructions

- **1.** Open bonnet.
- **2.** Remove engine cover (if fitted) and then locate and remove the air intake pipe between intercooler and throttle body. Cover intake openings to prevent foreign objects falling into openings. (**Pic 1**)



**3.** Remove the two (2) T30 torx screws from the outer edge of the radiator shroud and the two (2) plastic clips towards the inside edge. (*Pic 2*)



- **4.** For vehicles with factory bumper, unclip the twelve (12) clips holding the bottom of the grill to the bumper.
- **5.** For vehicles fitted with aftermarket bullbars, there may be additional mounting bolts that will need to be removed to free the grill. Please refer to the bullbar manufacturers installation instructions for further details.

**6.** Remove horns from mounting brackets by removing the nuts and washers holding each horn. Save hardware for later use. (*Pic 3*)

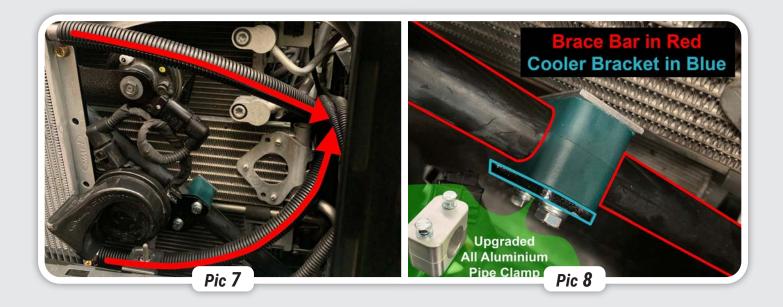


- 7. Remove the 13mm nut holding the horn bracket assembly from underneath the horn bracket. (*Pic 4*)
- 8. Loosen the two (2) bonnet catch bolts holding the top of the diagonal brace bars to give approx 6mm gap. (Pic 5)
- 9. Fit the supplied cooler hose to the two fittings on the cooler and secure with two (2) hose clamps. Do not cut the looped end yet.



**10.** Lower the cooler bracket into place and slide the two (2) upper mounting wings behind the diagonal brace bars. (**Pic 6**)

**11.** Route cooler hoses through gap beside radiator on passenger side. (Pic 7)



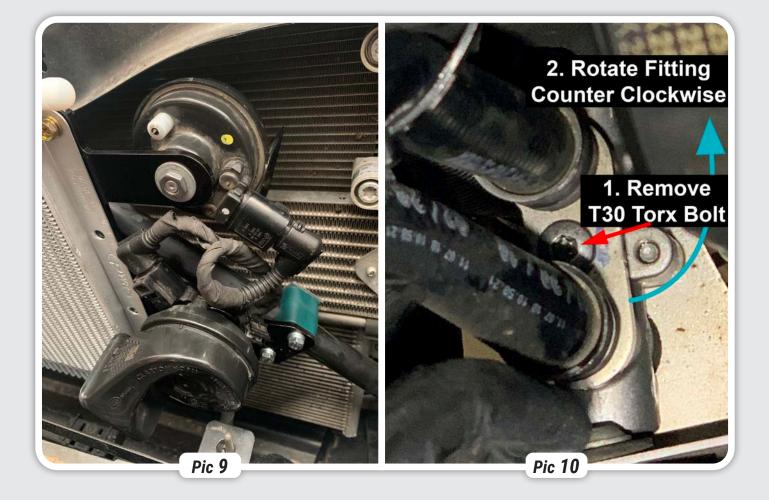
**12.** \*\*We have upgraded the pipe clamp to an all aluminium two piece clamp to aid fitting in the tight space behind the brace bar. The second half of the clamp is threaded which means we no longer require the seperate plate.\*\*

Remove the two (2) bolts and washers from the upgraded pipe clamp. Place the non threaded clamp half between the cooler bracket and the brace bar and feed the two (2) bolts and washers through to hold in place.

Place the pipe clamp half with the threaded holes behind the brace bar and screw the two (2) bolts into the threaded half. (*Pic 8*)

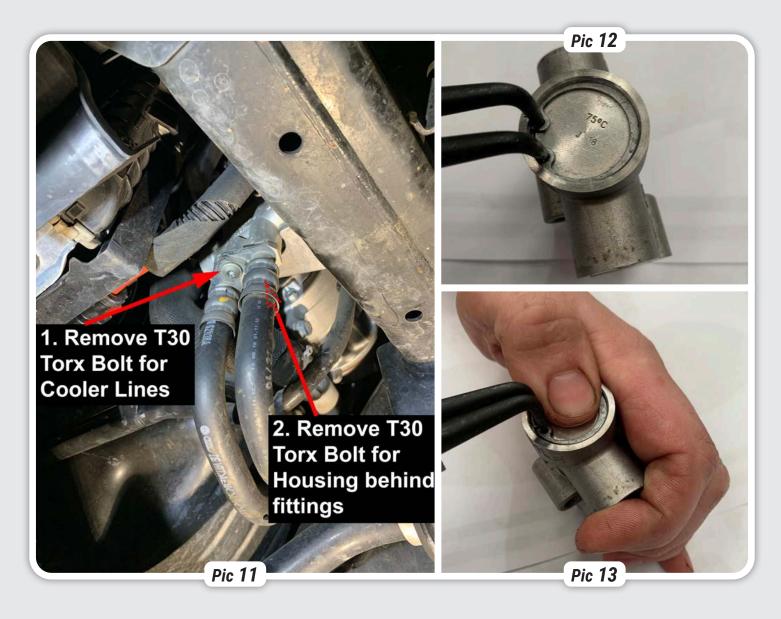
Tighten both bolts to secure.

**13.** Mount horns to cooler bracket using original hardware. Upper horn mounts facing rearwards, lower horn mounts facing forwards. Ensure the orientation of both horns are facing downwards to avoid water ingress. (*Pic 9*)



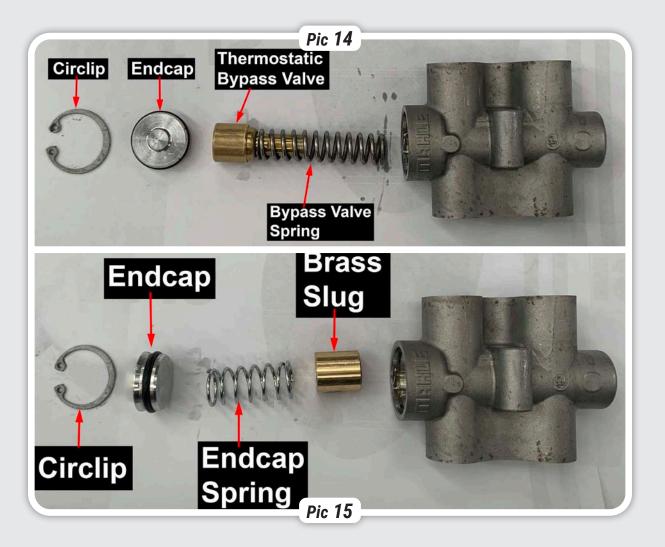
- **14.** Tighten all mounting bolts to secure cooler bracket in place.
- **15.** Locate the top of the thermostat housing in engine bay directly in front of serpentine belt.
- **16.** Remove the T30 torx bolt inbetween the two upper cooler lines, then remove upper cooler lines. The line closest to the engine, twist counter clockwise and remove first. (*Pic 10*)
- **17.** Under the vehicle, remove any bash plates that prevent access to the thermostat housing. The thermostat housing is mounted to the inside of the chassis rail, near the radiator and A/C compressor.

- **18.** Remove the T30 torx bolt that secures the two lower cooler lines, then remove lower cooler lines. The line closest to the engine is removed first.
- **19.** Locate the second T30 torx bolt under the thermostat housing and remove. This is the bolt that secures the thermostat housing to the chassis. (**Pic 11**)



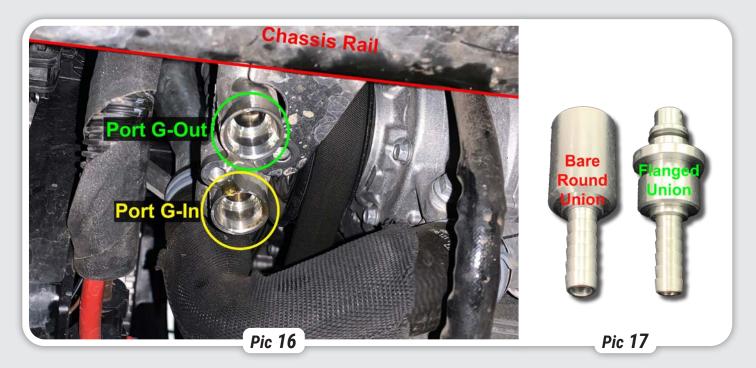
- **20.** With the thermostat housing on the bench, using the circlip pliers and your fingers, apply pressure to the endcap enough to remove circlip. **(Pic 12)**
- **21.** Slowly release the pressure on the endcap and allow it to come out. You may need to manipulate the endcap to get it to release. Keep your hand covering the endcap to prevent it from flying off due to the internal spring. (*Pic 13*)

- **22.** Remove the thermostatic bypass valve and spring. These are no longer required but may be saved if wishing to return to standard configuration. (*Pic 14*)
- **23.** Replace endcap o-ring with supplied o-ring if it looks damaged in any way.



- **24.** Insert into the now empty thermostat housing, the supplied brass slug first followed by the supplied spring. (*Pic 15*)
- **25.** Using the circlip pliers, circlip and your fingers, push the endcap down on the spring to locate the circlip in place. Once the circlip is holding, push down on multiple locations around the circlip to ensure it is fully locked.
- **26.** Reinstall the thermostat housing onto vehicle by installing the T30 torx bolt that holds the housing to the chassis.

**27.** For the next step, please take note of the names of the following parts so that it all makes sense. The changes being made are to only one port - G-Out. (*Pic 16 & 17*)



**28.** First install the Flanged Union into the port labelled G-Out. Insert the factory original fitting into the port labelled G-In. The flange on the orignal fitting also secures the Flanged Union in place. Secure with supplied T30 torx bolt only. Do not use original bolt. (**Pic 18**)



**29.** Insert original cooler fitting from port G-Out into the Bare Round Union. Secure in place with supplied union Z bracket and original T30 torx bolt replaced in previous step. (*Pic 19*)

**30.** Route cooler hose from new cooler down to custom unions. Cut one side of the looped cooler line for the Bare Round Union (the cooler lines are multi directional - it does not matter which way it flows). This union will sit beside the thermostat housing once complete. Secure with screw clamp. (**Pic 20**)



- **31.** Fit the looped hose to the Flanged Union in port G-Out and secure with supplied screw clamps. (*Pic 21*)
- **32.** Cable tie all cooler lines under the vehicle to prevent them coming in contact with hot or moving parts.
- **33.** In the engine bay, re-install the two upper cooler lines into the housing. The cooler line closest to the chassis must be inserted first. Re-install T30 torx bolt to secure lines.
- **34.** Cable tie all cooler lines in the engine bay to prevent them coming in contact with hot or moving parts.
- **35.** Re-install the air intake pipe removed in step 2 and secure. Re-install engine cover (if fitted).
- **36.** Before installing front grill, please re-check all fittings are tight and that there is no wiring touching the cooler.

- **37.** Re-install front grill by pushing the twelve (12) clips into factory bumper first then secure using the two (2) T30 torx bolts and two (2) plastic clips.
- **38.** Have someone start the vehicle and ensure vehicle is in Park with Handbrake firmly on and their foot firmly on the brake.
- **39.** To assist with cleaning, for the next step, cut some of the cardboard from the box the cooler kit was transported in to create a funnel for the transmission fluid. This will prevent transmission fluid from ending up in the crossmember and creating quite a mess. (**Pic 22**)



- **40.** Fit the looped hose to the Flanged Union in port G-Out and secure with supplied screw clamps. (**Pic 23**)
- **41.** If no fluid is coming out of this check hole, add transmission fluid until the fluid trickles out. This indicates the transmission fluid is at the correct level.

#### **PLEASE NOTE:** TRANSMISSION FLUID LEVEL MUST ALWAYS BE CHECKED WITH THE ENGINE RUNNING.

#### The manufacturer specifies the use of LifeGaurd 8 transmission fluid.

- **42.** *Re-install check bolt and tighten.*
- **43.** Clean any spilt transmission fluid from the vehicle, then re-install bash plates (if they were removed).
- **44.** Test drive vehicle for 15 minutes minimum to ensure all air pockets are removed from the cooling system.
- **45.** Recheck all surfaces, unions, screw clamps and cooler lines for any signs of leaking. Tighten fittings if necassary. Repeat test drive if leaks were present.