

Fitting Instructions PWO6690 External Transmission Oil Cooler Kit for Commodore VZ V6 & V8

Tools required

8mm ratchet socket with extension
 10mm ratchet socket with extension
 Medium Phillips Screw Driver
 Medium Blade Screw Driver
 19mm open end spanner
 6mm Drill

VZ 6 & 8cyl Transmission cooler Kit components	Qty	Part No
Description		
PWR transmission cooler 280x255x19mm 3/8	1	PWO0528
Powder coated steel bracket long	1	PWR6683
Powder coated steel bracket short	1	PWR6684
Male threaded hose fitting	1	PWR10042
Female threaded hose fitting	1	PWR12078
350mm long 3/8 hose	1	
1000mm long 3/8 hose	1	
3/8mm Hose clamps	4	
M6 Nuts	8	
M6x12mm bolts	4	
Zip Tie 300mm Long	2	

Ideally ensure the vehicle engine and transmission temp is low

Ideally raise front of vehicle to assist in front bar removal

Remove 5 scrivets along top of radiator cover

Remove 3 upper grille screws near bonnet catch

Remove the Drivers side power steering cooler bracket.

On V8 Models only - Remove engine cover via 4x 10mm Nuts - Remove engine air box lid and air intake to throttle

From the top grille opening, lower the PWR transmission cooler into place, slightly off set to the drivers side (transmission cooler outlets pointing to the drivers side of vehicle) until the hole in the drivers side bracket align with the existing far hole nearest to drivers side headlight. Proceed to drill a 6mm hole in this hole and the opposite top mount bracket and secure with M6 bolts & nuts supplied.



With the top of PWR cooler brackets now secure, proceed to drill a pair of 6mm holes to align with the lower bracket holes as circled. Attach bracket to vehicle lower panel with M6 Nuts & Bolts



With the PWR external transmission cooler firmly mounted in place, proceed to connect the two flexible hoses supplied in kit to the PWR external transmission cooler.

- The **350mm** long hose from the bottom barbed outlet of the PWR transmission cooler running down under the drivers side radiator tank beside mount pin along the out side of bottom radiator hose.
- The **1mtr** long hose from the top barbed outlet of the PWR Transmission cooler running down also under the drivers side radiator tank (beside the mount pin) passing along the inside of the bottom radiator hose and radius-ing as widely as possible to the area of the bottom in tank transmission cooler outlet.

Turning attention to the rear side of the radiator using a 19mm open ended spanner proceed to loosen the bottom in-tank transmission pipe at the point of entry into the radiator tank.

- It may be a good idea to place a rag under the outlet as a small amount of oil may be lost.

Be sure to remove the sealing washer from the end of this pipe. Place this sealing washer to the end of the **male** PWR hose adaptor. Proceed to screw this **male** adaptor to the bottom in tank transmission outlet (in radiator) and secure with 19mm open end spanner.

With the PWR female adaptor in hand, proceed to secure this to the end of the factory transmission pipe that is now left over after the above procedure. Ensuring the adaptor is tight, proceed to connect this to the 350mm flexible 3/8 Hose.

Secure with a 3/8 hose clamps supplied in kit.

Two hose zip ties are supplied in kit. These can be used to secure the new PWR flexible lines to the Bottom Radiator Hose.

Re fit the front bar cover (and on v8 models refit air box intake and engine cover)

Carry out final inspection of all work carried out before starting engine.

Start Engine and confirm system is leak free.
Top up Transmission fluid where necessary