

Fitting Instructions PWO6680 External Transmission Oil Cooler Kit for Commodore VY V6 & V8.

Tools required

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

VY - 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
700mm long 3/8 hose	1	
850mm long 3/8 hose	1	
3/8mm Hose clamps	4	
M6 Nuts	8	
M6x 12mm 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 Screws attaching Top of grille to top radiator support panel

Remove front bar via 2 screws on outer corners just forward of front wheels. Apply slight pulling pressure to release bar from bar clips. Front bar cover will then release.



phone: +61 7 5547 1600 email fax: +61 7 5547 1666 www.

email: info@pwr.com.au www.pwr.com.au ABN: 96 081 798 996

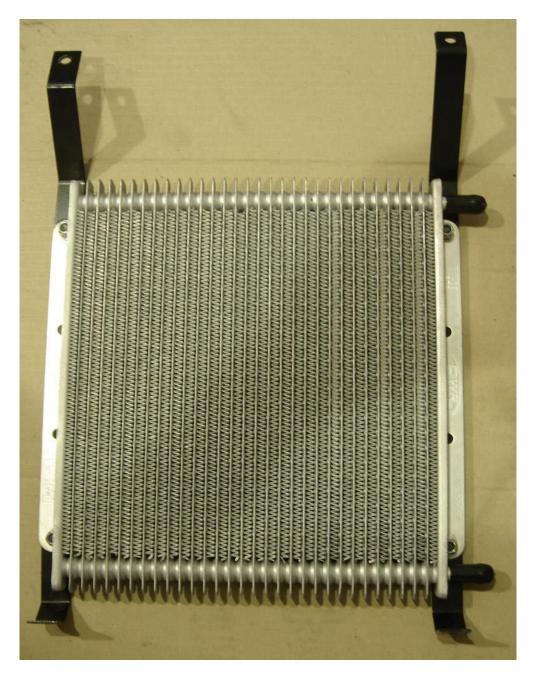
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Remove the Drivers side power steering cooler bracket.

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

Ensure the PWR external transmission cooler has the "Powder coated bracket long" fitted on the outlet side as pictured.





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ENGINEERING THE UNFAIR ADVANTAGE



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 passenger side of vehicle) until the hole in the drivers side bracket aligns with the existing far hole nearest to drivers side headlight. Proceed to drill a 6mm hole in 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.



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With the PWR external transmission cooler firmly mounted in place, turn your attention to the rear side of radiator.

With a 19mm open ended spanner proceed to loosen the bottom intank transmission pipe. -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 fit this **Male** adaptor to the bottom in tank transmission fitting (in radiator).

Proceed now to connect this fitting with the with the bottom outlet on the PWR external Transmission cooler via the 850mm long 3/8 Flexible hose. With hose fitted fit 2 x 3/8 hose clamps and tighten .

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 top outlet of the PWR external transmission cooler, via the 700mm Flexible 3/8 Hose. Secure with a 3/8 Hose clamp at each end. Ensure tight

Carry out a final inspection of all work performed.

Refit Front bar, air Box and throttle intake and Engine cover

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



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