

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

Tools required

8mm ratchet socket with extension
10mm ratchet 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.



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.



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.



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 in-tank 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 necessary