



FG Coyote 5.0 S/C Streetfighter Intercooler Kit

Important! Must Read First

Congratulations on the purchase of Australia's premium intercooler system for your 5.0 S/C Coyote.

To ensure your intercooler is fitted correctly and operates perfectly and reliably we advise that this kit is to be fitted by a Streetfighter Dealer workshop.

If you are unable to access a Streetfighter dealer we strongly recommend a professional experienced fully qualified technician to install your new Streetfighter intercooler kit.

Ask your qualified installer to contact KPM Motorsport on any aspect not clear in the instructions provided. 08 82999 998 / david@kpmmotorsport.com.au

As a wide variety of skills, procedures, special tools and workshop equipment is needed to install this kit:

- KPM will take NO responsibility or give NO guarantees on the operation of this product for fitment not carried out by a Streetfighter dealer or experienced qualified technician.
- KPM Motorsport will take NO responsibility or give NO guarantees on the operation of this product due to not fitting this kit exactly as per the instructions provided.

Ensure correct workshop safety procedures are carried out in fitment of this kit.

Ford Genuine coolant only with correct glycol mix ratio must be used to fill intercooler system. KPM will take NO responsibility for the use of any other grade coolants used with this intercooler kit.

Please read ALL instructions before commencing fitment.

Guaranteed

On satisfaction that ALL instructions have been followed as per this document KPM Motorsport will warrant the Streetfighter Intercooler against any defects or faults for 12 months from the date of purchase.

Streetfighter Intercooler basic fitting instructions

Dismantle

- 1) Unpack all components and lay out neatly for inspection
- 2) Remove intake filter and ducting assembly
- 3) Carefully fold back rear firewall lip just above plenum lid at rear for increased clearance.
(See attached picture)
- 4) Remove throttle body
- 5) Remove Plenum lid and diffuser assembly
- 6) Unbolt throttle body bracket from lid
- 7) Unbolt the MAP sensor from intake runner and leave installed **without** bolt
- 8) Remove bumper bar under tray.
- 9) Unbolt the 2 power steering cooler nuts and move the cooler out of the way as best possible.
- 10) Remove the 2 studs from the A/C condenser that houses the power steering cooler and discard. (see **tip 1**)
- 11) Remove the top shroud around the bonnet catch area.
- 12) Remove the 2 top radiator support brackets to allow radiator to lean forward freely
- 13) Loosen the 2 bolts holding the bonnet catch assembly

Plenum Intercooler Fitment

- 1) Drill out the 2 centre rear holes on the plenum cover to accommodate the 2 8mm Allen Cap screws supplied
- 2) Fit the new seal supplied to the riser plate groove and fit the plenum cover to the riser plate/plenum cooler assembly using only the 2 allen cap bolts at rear. Fully tighten the 2 bolts. (the plenum lid will raise approx 10mm at the front)
(**see tip 2**)
- 3) Place riser plate/plenum intercooler assembly into plenum with hoses connected to the rear 3 outlets.
- 4) Be sure to check the riser plate has accommodated the MAP sensor correctly in the riser plate cut away
- 5) Fit all 16 x 6 mm Stainless steel allen cap bolts and washers to plenum cover and tighten down evenly. (**see tip 3**)
- 6) If using the standard throttle body modify the throttle body bracket by cutting at the correct angle to be able to refit perfectly. (As per picture)
- 7) If utilising the Streetfighter Twin throttle Body Kit disregard the standard throttle body bracket. An alternative bracket will be used.
- 8) Refit Throttle Body (**see tip 4**)
- 9) Refit Plenum Top dress plate. (see **tip 6**)

Front Intercooler Fitment

- 1) Slide the front cooler in from under the car up towards the bonnet catch bracket and loosely tighten.
- 2) Refit power steering cooler to the bottom of the new intercooler using the 2 x 6 mm bolts supplied.
- 3) Tighten all front cooler bolts.

Water Pump and Hose routing

- 1) From under the car locate the washer bottle mounting bracket.
- 2) Locate the vacant 10mm hole on this bracket. (**see tip 5**)
- 3) Use the P Clamp supplied to mount the water pump at this point utilising the 8mm bolt supplied. You can use this point for the water pump earth wire as well. (see picture)
- 4) Route the water pump power supply wire across the top radiator support panel towards the fuse box at the front right of the engine bay.
- 5) Un-tape part of the loom entering the fuse box near the battery earth cable.
- 6) Look for the pink fuel pump wire. Splice the wire and tee and SOLDER the water pump power supply into this circuit.
- 7) Route the intercooler hosing as per the diagram attached.
- 8) Refit 2 top radiator support brackets
- 9) Refit Intake filter and ducting assembly

Bleeding and Checking system

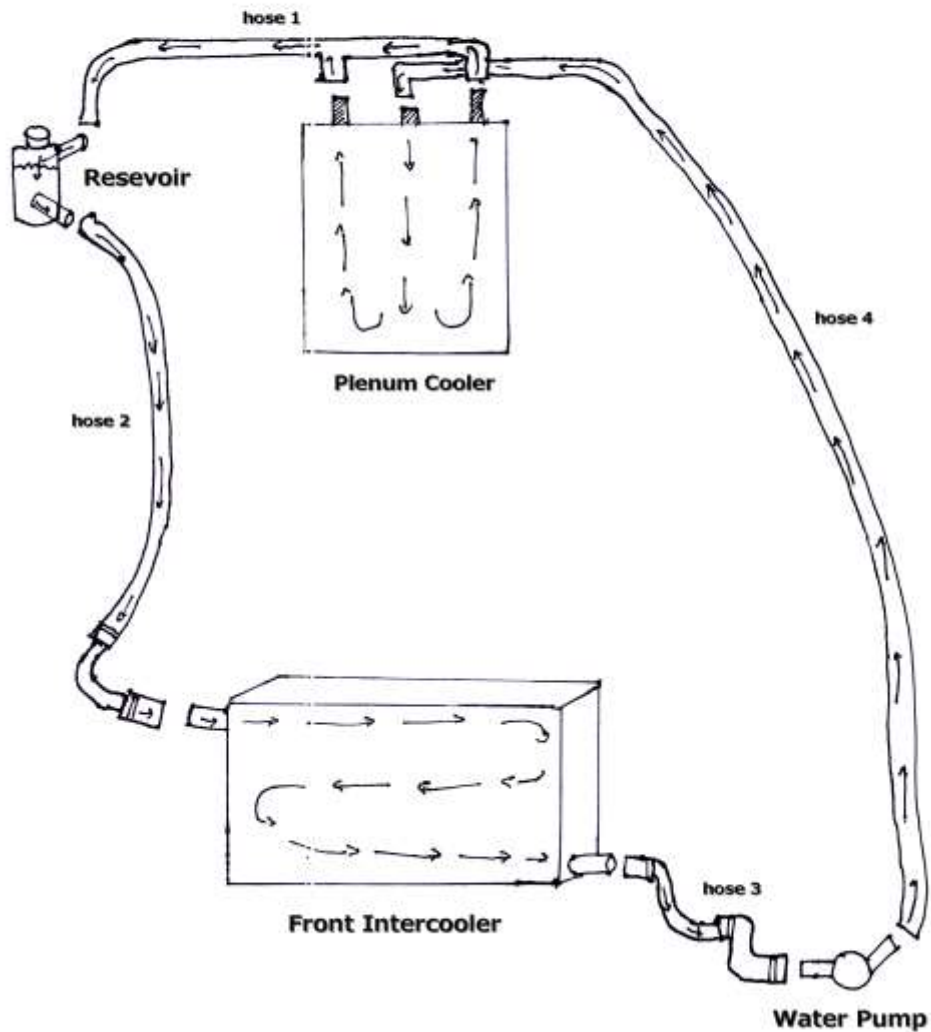
- 1) Open the bleeder at the front mounted heat exchanger.
- 2) Use a funnel into the filler bottle reservoir and use premixed Genuine Ford coolant ONLY to fill front cooler until fluid comes without air. When solid stream comes out refit bleeder screw.
- 3) Start the car and run engine. Place hand on electric water pump to ensure operation
- 4) Remove funnel and continue to fill system until solid stream of circulates into and out of the reservoir. (**see tip 7**)
- 5) Fill reservoir while running to just cover the top inlet pipe and fit cap.
- 6) Refit bonnet catch shroud.
- 7) Refit bumper bar under tray
- 8) Run and idle system and to makes sure there are no leaks.

Congratulations, you have successfully installed the Streetfighter Intercooler kit!!

Tips

- 1) Use vice grips to loosen the 2 power steering studs from A/C condenser. Then use a torx bit to remove fully.
- 2) Use rubber grease if necessary to ensure the plenum lid o ring does not come adrift in fitment.
- 3) Before fitting riser plate/ plenum cooler assembly in position the 2 outer rear 6mm allen cap bolts will need to be installed. They will not be able to be fitted after riser plate/ plenum cooler is in position.
- 4) Re-tap and clean threads in throttle body before re-assembly
- 5) Depending on Year/Model of car, the earth wire/ mounting point used for the water pump may not be there. If so the a 10mm hole will need to be drilled in the bracket
- 6) Make sure the 10 black stainless steel tapered Phillips head screws are used to install the Top Dress Plate on the plenum. These screws will ensure increased bonnet clearance over the standard domed screws.
- 7) The Intercooler system holds approx. 5 litres. By ensuring that this is the minimum amount of coolant accepted by the system will give a good indication of being properly bled..

Streetfighter Intercooler Mk3 Hose routing

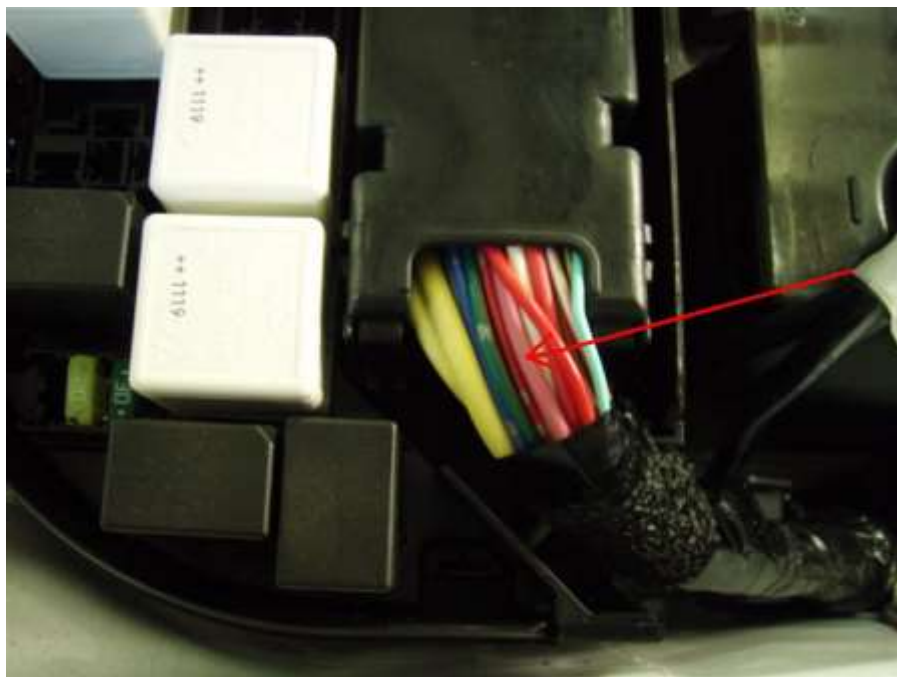


Hose 1 runs from the rear of the plenum cooler along the firewall to the reservoir

Hose 2 runs from the reservoir towards the top out let on the front intercooler.

Hose 3 runs from the bottom outlet of the front intercooler to the inlet of the electric water pump.

Hose 4 runs from the water pump outlet along the A/C high pressure hose on the left of the engine towards the rear of plenum cooler.





L/H Hose Routing along A/C pipe



Reservoir Location



Finished Product

