77 Taras Avenue
P.O. Box 363
Altona Nth Vic 3025 Australia
Phone: +61 (0) 3 9369 1234
Fax: +61 (0) 3 9369 3456
info@daviescraig.com.au
www.daviescraig.com.au
www.daviescraig.com

FORD COYOTE EWP HEADER-ADAPTOR KIT INSTRUCTIONS

Kit Part #8660 – Suitable for Ford 5.0L Coyote engine.

Congratulations on your purchase of the Davies, Craig Ford Coyote EWP® Header-Adaptor Kit. This Kit has been designed for use with an Electric Water Pumps (EWP®) and Davies, Craig Thermatic® Fans to replace your belt-driven mechanical fan and pump.

You will find details for identifying the most suitable EWP® and Thermatic® Fan on our website www.daviescraig.com.au.

Note: This header adaptor plate is designed to fit in place of the original belt driven Mechanical Water Pump. Upon removing the Mechanical Water Pump, you will need to ensure that you have the correct sized belt (supplied) for reconfiguration.

PLEASE READ ALL THESE INSTRUCTIONS THOROUGHLY BEFORE YOU START WORK. DON'T RUSH - ENSURE YOU HAVE FULL UNDERSTANDING OF THE WORK AHEAD BEFORE YOU COMMENCE. ENSURE YOU HAVE ALL TOOLS AND COMPONENTS REQUIRED.

KIT CONTENTS

Item	Description	Qty
1.	Header Adaptor Plate	1
2.	38mm (1½") Straight Adaptor	1
3.	M5 Bolts	6
4.	O-Ring (large)	1
5.	O-Ring (small)	1
6.	In-Line Adaptor (Nylon)	2
7.	Heater Return Adaptor (Alloy)	1
8.	Heater hose (44cm)	1
9.	38mm (1½") 90° Hose Adaptor	2
10.	Hose Clamps Small	2
11.	Hose Clamps Large	6
12.	Rubber Sleeve 3mm (1/8")	4
13.	Belt 6PK985	1
14.	Installation Instructions	1

Figure 1: Coyote Kit Components.

Installation Guidelines:

(An EWP® installation video can be viewed at: www.daviescraig.com.au)

1. Remove the radiator cap then disconnect the bottom radiator hose to drain the coolant from both the radiator and engine into a clean tray. If the coolant is clean and free of foreign matter it may be reused. Retain the bottom radiator hose, you may require a section of this hose to complete your EWP® Coyote conversion.

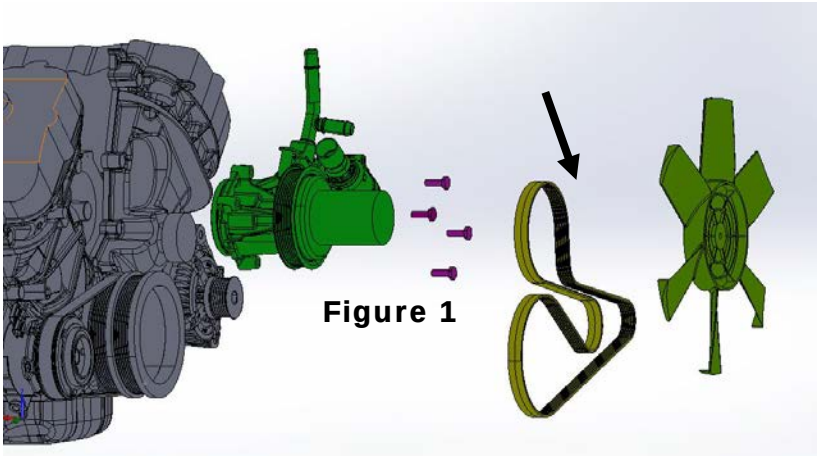

Figure 1

2. Loosen appropriate hardware and remove belt. Disconnect heater return hose and remove the Mechancial Water Pump from the Engine Block. *(refer Figure 1)* Replacement belt will be required.

3. Retain the bolts from the detached mechanical water pump as these will be required to attach your Coyote EWP® Adaptor Plate. Clean the surface of the engine block to ensure it's free of the old gasket and any grime and coolant.

4. Pre-Assembly – take the Coyote EWP® Adaptor Plate and place the small O-Ring provided over the surface of the inlet. Secure the 38mm (1½") Straight Adaptor onto the Coyote Adaptor Plate with the 6 x M5 Screws provided. When mounting the Straight Adaptor to the plate ensure the O-Ring is properly positioned. Take the large O-Ring and place in the groove located in the rear of the Adaptor Plate.

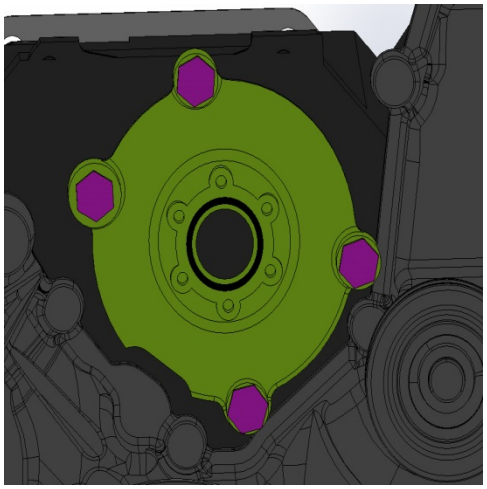

Figure 2

5. Slide the Coyote EWP® Adaptor Plate Assembly into the open profile on the engine block where the mechanical water pump was positioned, ensuring the large O-Ring sits in its groove and mounting holes align with those on the engine block. Secure plate in place with existing hardware. *(Refer Figure 2).*

6. Secure the 90° Hose to the 38mm (1½") Straight Adaptor with large hose clamp provided. Then slide the In-Line Adaptor into the bottom end of the same hose and secure with large hose clamp supplied. Then secure the bottom radiator hose *(if serviceable)* to the In-Line Adaptor with a large hose clamp supplied. Secure but do not fully tighten. If required, place one 3mm rubber sleeve supplied on each end of the In-Line Adaptor. Do not tighten.

7. Pre-assemble the Heater Return Adaptor to the EWP® inlet using Teflon tape to ptrvent any possibility of leaking. Align the EWP® with the bottom radiator outlet. Ensure your EWP® is located as low as possible relative to the bottom of the Radiator outlet to assist with bleeding trapped air. Use a small portion of the bottom radiator hose to secure the EWP® to the radiator outet, *(the remainder of your current bottom radiator hose may be suitable for this purpose).* Connect the radiator hose with a large

hose clamp (supplied) to the EWP® inlet. Then fit the other end to the bottom radiator outlet with a large hose clamp (supplied).

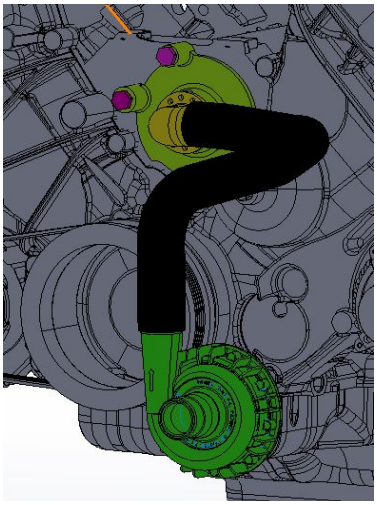

Figure 3

8. Remove existing Heater Return "T" piece from Mechanical Water Pump. Connect this piece to the Heater Return Adaptor using heater hose and clamp, (supplied). (*Figure 4)*

9. Connect the second 90° Hose (supplied) to the engine coolant outlet *(Figure 5).* Join the 90° Hose to the top radiator hose using the second In-Line Adaptor Nylon and hose clamps (supplied).

10. Fit the new belt (supplied) as shown in figure below. (*Figure 6*)

11. Once you are satisfied with the initial assembly and alignment of your EWP® and EWP® Header-Adaptor Kit conversion, proceed with final assembly ensuring all hose clamps, screws and bolts are sufficiently tightened to prevent leaks. Be careful not to over-tighten.

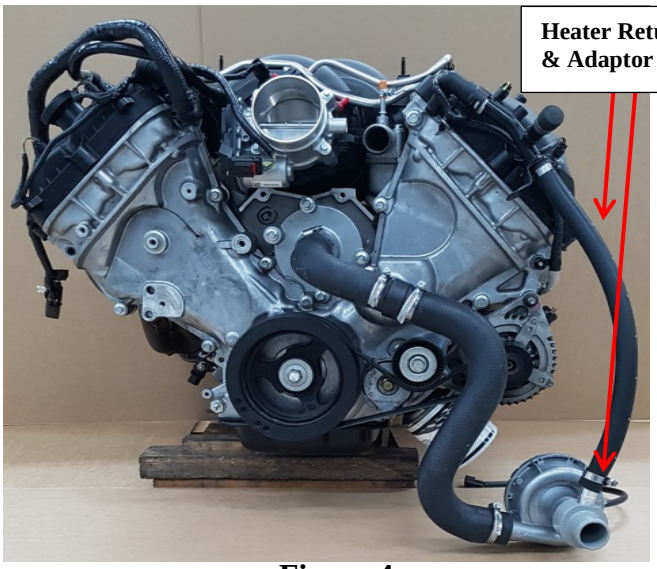

Figure 4

Figure 5

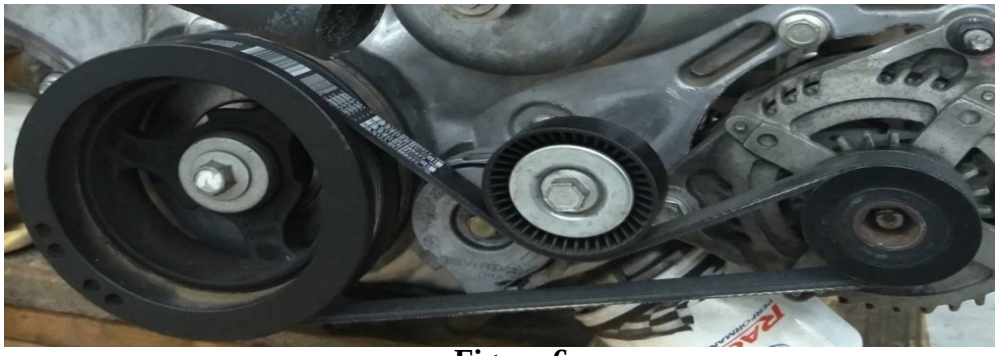

Figure 6

12. Follow the LCD EWP®/Fan Digital Controller installation instructions to complete this part of the EWP® conversion.

13. Refill the radiator but not replace the radiator cap at this point. Then start the engine. Your EWP® and EWP®/Fan Digital Controller combination will commence its pre-programmed 'test' mode and operate the EWP at full speed for 5-10 seconds. Turn

on the vehicle's heater (if applicable) to the maximum setting. Run the engine for approx. 10 minutes while carefully monitoring engine temperature. Top up coolant level as required. Switch off engine. If you are satisfied your cooling system is completely free of air, replace the radiator cap. Restart engine, run up to operating temperature checking all fittings are secure and observe for any leaks. Switch off engine and re-torque any fittings and hose clamps if required.Check coolant flow in the heater lines. **N.B.** If you find the heater is not functioning correctly, you may be required to fit a EBP15 (part #9001) to the heater line.

14. 'Road test' the vehicle, running the engine up to operating temperature. Again, turn the heater full-on to assist purging of all air from the cooling system. Allow engine to cool down, check coolant level again, topping up if required. Please repeat the above process until you are satisfied your engine's cooling system is totally free of air, all hose clamps and hex cap screws must be tightened satisfactorily to avoid any leaks. You should check your cooling system thoroughly after 20 hours operation.

These installation instructions will suit most EWP® applications. There may be circumstances surrounding some engine designs, environments, and the nature of the engine cooling system involved which may require other installation procedures not outlined here. Frequently Asked Questions (FAQs) are listed on the website www.daviescraig.com.au
Davies Craig Pty Ltd appreciates customer feedback. Emails can be directed to info@daviescraig.com.au or Telephone +61 (0) 3 9369 1234.

WARRANTY

Davies, Craig Pty Ltd hereby warrants these products for a period of two (2) years, 40,000km or 2000 hours continuous running (whichever is the lesser) from the date of purchase. Davies, Craig Pty Ltd will carry out any repairs/replacement to the Electric Water Pump, EWP®/Fan Digital Controller and/or EWP® Header-Adaptor Kit free of cost provided that such fault is directly attributable to a defect in the workmanship or materials used in the manufacture of the Davies, Craig products supplied. Labour and consequential costs excluded.

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