



# INSTALLATION INSTRUCTIONS

## Part # FP820ERL

Please read these instructions completely before beginning installation.

### KIT CONTENTS

QTY.	DESCRIPTION
1	Earl's UltraPro Extra-Wide 20-row oil cooler, 7/8"-14 ports fan-assisted oil cooler assembly

### FAN OPERATION DETAILS

Fan direction: Puller

Fan direction reversal will offer diminished performance, as the blades are optimized for pulling performance.

Voltage: 12V

Amperage: ~24A at startup, ~9.6A continuous @ 0 static pressure

Fan performance: 684 CFM @ 0 static pressure

### MOUNTING

- Find a mounting location on the vehicle that will allow for ample air to be drawn through the oil cooler.  
**NOTE:** It is important to allow for hot air to evacuate out the rear of the fanpack. Mounting location should provide an exhaust path for hot air to escape, else oil cooler performance will be diminished.
- Ensure mounting location will be free of any moving parts that may interfere with the free movement of fan blades.
- Isolate the oil cooler assembly from vibration using rubber dampening at all mounting points for maximum longevity.

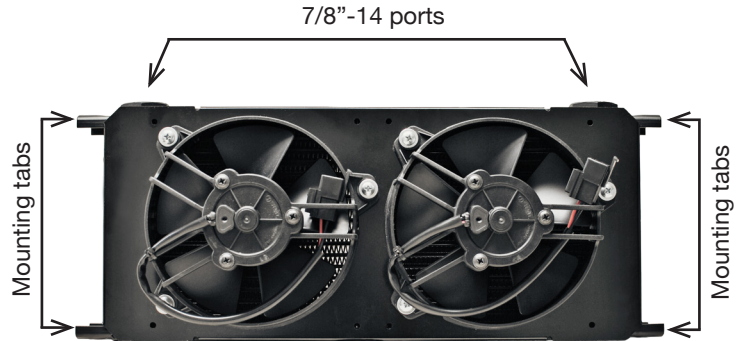
### PLUMBING

- The oil cooler will flow in either direction.
- The oil cooler ports are SAE standard -10AN (7/8"-14) threaded ports and **MUST** use compatible ORB/AN straight thread O-ring adapter fittings. Use Earl's fittings:

AN Flare Size	ORB/AN Size	P/N
-6AN Male	-10ORB (7/8"-14)	585106ERL
-8AN Male	-10ORB (7/8"-14)	585108ERL
-10AN Male	-10ORB (7/8"-14)	585110ERL
-12AN Male	-10ORB (7/8"-14)	585112ERL

The thread length on other ORB fittings may be too long and bottom out inside the cooler causing damage or reducing oil flow. Do not use any thread sealant on the threads.

- To avoid aluminum thread galling and o-ring bunch, lubricate the o-ring and threads liberally with Earl's Assembly Lubricant (part # 184004ERL) or like.
- Always use a backup wrench to install adapter fittings into the oil cooler.
- Whatever size oil lines are being used for oil cooler plumbing, securely fasten the hose in several locations, including as close to the oil cooler as possible to minimize the transfer of vibration into the brazed cooler from the oil lines.



### WIRING

- Minimum 18 AWG automotive wire should be used for ground and power supply.
- If not using the included connector or ring terminal, cut off to reveal bare fan power and bare ground leads for wiring.

#### Note: Wiring fans together

A connector wire may be used to wire power to both fans simultaneously if desired. To do so, connect both the positive (+) red power leads of both fans to each other, and both the negative (-) black leads of both fans to each other.

- Connect the positive (+) red power lead to a switched 12V source (manual switch or thermostat). Power may be fused or relayed.

**NOTE:** If wiring in a thermal switch, the switch should be located on the hot side of the oil cooler and positioned between the positive (+) red lead and the power source.

- Connect negative (-) black lead to suitable chassis ground.

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**Warning:** Installation should only be attempted by those with mechanical skills and experience working on vehicles. Standard safety precautions consistent with the tools and dangers of automotive work should be followed to protect from injury. Specifically, wear protective equipment, take care to stabilize the vehicle on a level surface, engage the parking brake, and allow vehicle to cool before attemptation installation; failure to comply can result in injury and/or damage to equipment.