

**June 19, 2024**

## **Technical Service Bulletin – 10**

### **Mustang Dark Horse R Radiator**

Issue: Cooling capacity robustness is required.

Action: Follow the procedure to install the radiator kit.

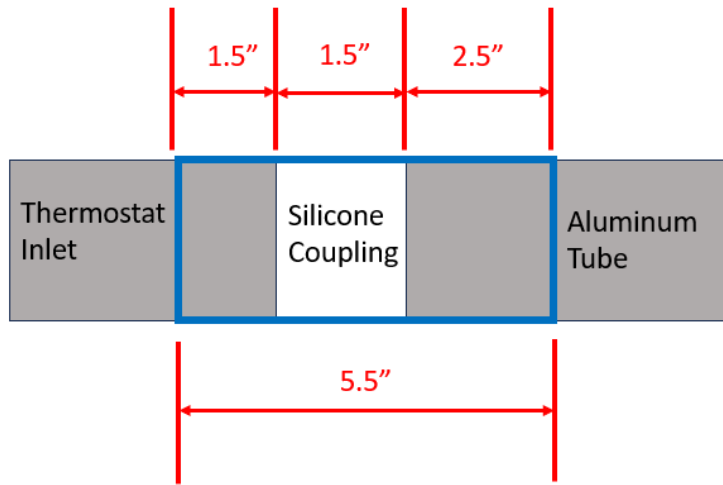
#### **Kit Contents:**

- PWR Double Pass Racing Radiator
- Aluminum lower radiator tube
- 5.5” Silicone Hose Coupling
- 4.5” Silicone Hose Coupling
- Hose Clamps (4x)
- Tie Strap with M10 Stud Mount

#### **Installation Procedure:**

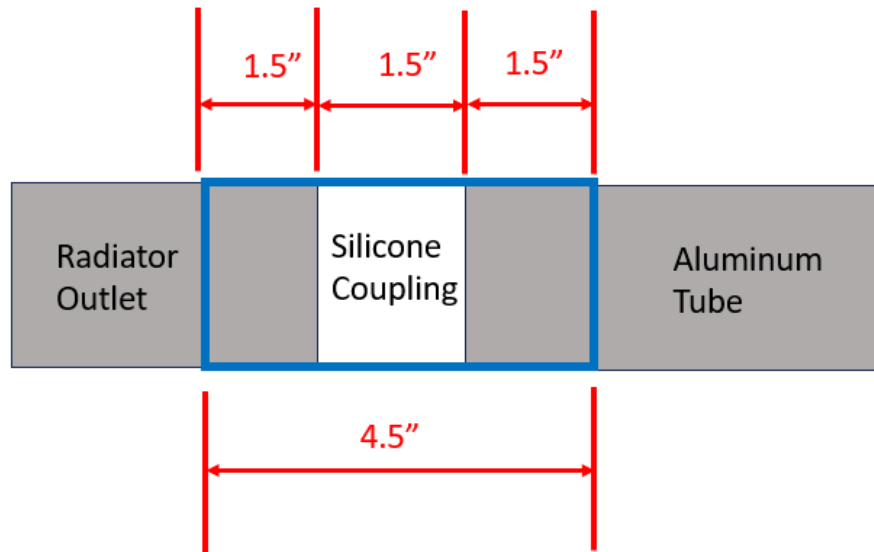
- Drain coolant.
- Remove coverings, existing radiator and lower radiator hose.
- Install PWR double pass radiator.

- 2 lengths of silicone radiator hose couplings will be provided. Use the 5 ½" length coupling to attach the water inlet on the thermostat housing to the aluminum radiator tube end with the 180 deg bend. Clamp both ends of the silicone coupling. Recommended clamp torque is 4.4 ft/lbs. Use spacing shown below with 1.5" of unsupported coupling length to allow for compliance during engine roll.



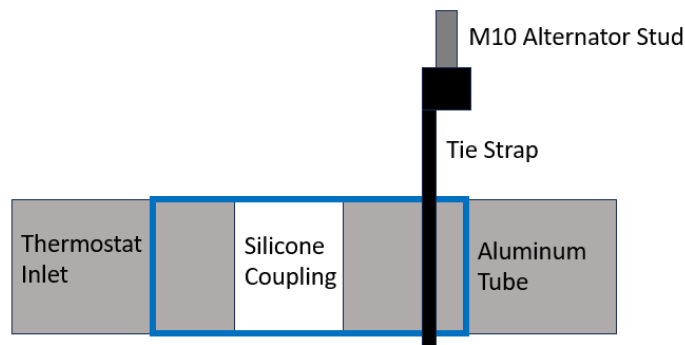
**Figure 1: Coupling to Thermostat Inlet**

- Use the 4 ½” length coupling to attach the lower radiator outlet to the aluminum radiator tube. Clamp both ends of the silicone coupling. Recommended clamp torque is 4.4 ft/lbs. Use spacing shown below in Figure 2 with 1.5” of unsupported coupling length to allow for compliance during engine roll.



**Figure 2: Radiator Outlet to Aluminum Tube Coupling**

- Attach tie strap to the M10 stud on the alternator (figure 4) wrap around the radiator line on the section of silicone hose. DO NOT fully tighten the tie strap, it is only intended to limit motion of the radiator line.



**Figure 3: Tie Strap Location**

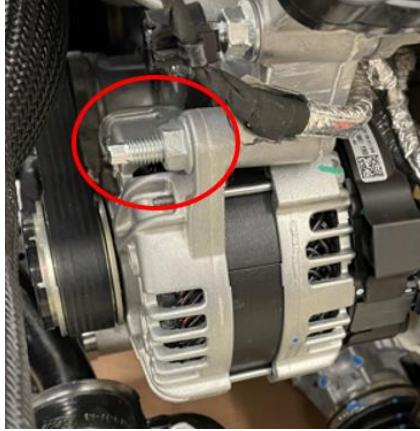


Figure 4: Alternator Stud Location

- Reinstall the fan module in the vehicle onto the radiator. Torque the bolts shown in figure 5 to 55 in-lbs.

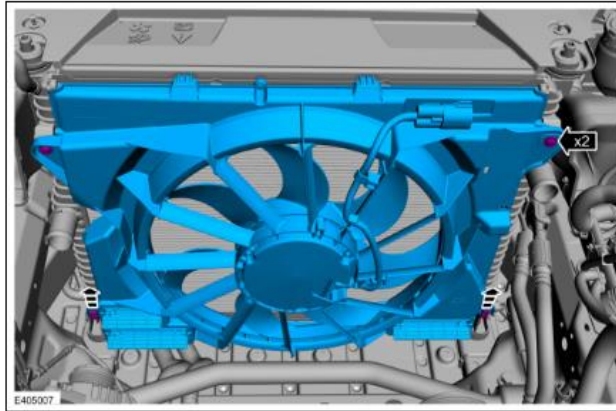


Figure 5: Fan bolts

- Reinstall coverings and refill coolant. For coolant refill an airlift system is recommended to reduce cooling system bleed and purge time and eliminate the potential for air locks.
- Coolant capacity: 11.7 Quarts (11.1 Liters)