



2024+ Mustang S650 Oil Cooler Instructions
p/n: 777503

1. Raise the Driver side of the vehicle and support with jack stands.
2. Remove the Driver Side Front Wheel
3. Remove the Fender Liner to gain access to the work area.
4. Unbolt the Horn assembly, remove the metal clip attached the the body, this will be used to relocate the horn.
5. Remove the Screws securing the plastic lower bumper vent cover.
6. Remove the 2 bolts securing the bumper crash bar to the chassis.



7. Install the inboard Black Billet Bracket using the new longer bolts and nuts provided.
8. Attach the Oil Cooler to the bracket installed in step 7 above using the hardware provided (do not tighten yet)
9. Remove the Bolt and Clip that attaches the rear of the driver side headlight.
10. Attach the outboard Black Billet Bracket to the Oil cooler and Headlight bracket using the supplied hardware.



11. Now tighten all hardware, do not overtighten the bolt/nut that connects the MMR bracket to the headlight bracket as this can crush/crack the plastic.

12. Attach the oil filter relocation bracket to the frame rail using 1 of the holes that can already be found in the front driver side frame rail. This will be the hole used at the front of the relocation bracket. A second hole for the rear of the bracket will need to be drilled (1/4" drill bit) , you can use the oil filter mount as your template to set the correct spacing. Once you have drilled the second hole mount the oil filter adapter with the supplied nuts and bolts



13. Remove the factory oil filter and block adapter (skip this step if using the spin-on adapter option, only the oil filter needs to be removed in this case, then simply install the spin on adapter). Some oil will flow out so have some rags ready to prevent excessive spillage.

14. Install the MMR Block adapter onto the engine block using the supplied hardware, it is helpful to install your oil pressure sensor first. Tighten these 3 bolts to 35 ft lbs.

15. You can now cut and set your hose lengths. The Routing in the picture and Diagram must be followed for correct circulation and filtering. Route you hose from the Block (OUT passage) to the Oil filter relocation bracket front fitting marked IN. The outboard side of the oil cooler will connect to the top of the Oil filter relocation bracket (marked OUT) using the 180 degree fitting. The inboard side of the oil cooler connects to the IN passage on the block. Hoses can be routed above or below the K member. Use the Supplied zip ties to secure hoses as needed.



16. Re-attach the horn as shown using the hole just below and to the rear of the original horn mounting hole using the original rear clip and supplied bolt and washer.



17. Fill the MMR Billet canister with some oil, lubricate the O rings and install the oil filter tightening the canister to 75ft lbs (the higher torque rating printed on the canister is not used on remote mount applications because it is not affected by direct engine vibration)

18. Check all fittings and Tighten as needed.

19. With the vehicle still on the jack stands and in (N) Neutral, start the vehicle and check for leaks. it may take 3-4 seconds for the engine to build oil pressure - this is normal. Do not rev the engine during this time.

20. Once you have confirmed that you have zero leaks, you may reinstall the fender liner (MMR Suggests drilling Multiple holes in the fender liner directly behind the oil cooler to allow air to vent out (this is done from the factory on Dark horse, GT350 and Mach one models). You can also obtain the Factory Ford Darkhorse Fender Liner if you do not wish to drill vent holes.

21. Lastly, install the wheel, torquing the lug nuts to the manufacturers recommendation.