

GordsFord Performance Engineering

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2003/04 Cobra Intercooler Heat Exchanger



GordsFord developed a new Heat Exchanger (HE) design for the 03/04 Cobra. For those of you not aware, cooling the intake charge after the Eaton supercharger results in increased horsepower and reduced potential for detonation. Greater cooling efficiency enables a sharp tuner to dial in more timing, or allows a greater safety margin in the existing tune. The stock system is adequate for normal driving on the street with moderate ambient temperatures, but for any serious drag racing with frequent runs, open tracking on the sports car circuits, or extended spirited driving in high air temperatures, heat soak can be a real problem for our cars, particularly with a pulley for increased boost levels. The engine will lose a significant amount of horsepower, and when too hot the computer will start to dump boost and cut off cylinders and goes into a "limp" mode. Not a good scene!!



The GordsFord design features the following advantages over the stock unit and other available after market solutions:

- The HE core is twice as thick as the stock unit and is 5 inches longer (wider) and about 0.75 inch deeper than stock.
- The cooling fin area is almost 2.7 times larger than stock. Frontal area is comparable to the large Lightning F...unit and from about 1.15 to 1.36 times the frontal area of the other available Cobra specific units.
- The HE fits within the stock mounting brackets with special metric stainless steel mounting bolts and spacer hardware that fits in the stock threaded bolt holes.
- The stock steel angle (L) lower protection bar at the front of the HE is retained.
- The HE only hangs about 5/8 inch lower than stock and is fully hidden behind the front valence and upper part of the stock chin spoiler.
- The new HE fits between the brake duct openings without interference and brake ducts can still be used.
- The HE completely fills the lower grille opening and the end tanks are not in view, resulting in a very clean appearance and also presents more cooling fin area directly to the airstream.
- Can be left as bare aluminum or painted in "stealth black" to match the stock appearance.
- No large company logo on the front. Can be painted with the COBRA name to match the rear bumper letters if desired.
- No cutting or modifying the front bumper structure which weakens the front bumper and could potentially result in legal implications with your insurer in the event of an injury or death in an accident.
- Substantially less installation time than for the brand F Lightning unit. The front of car remains intact and the HE can be installed in less than an hour by a trained technician working with the car on a lift, or in 1.5 to 2 hours by the backyard mechanic working with the car on jack stands.
- Competitive or lower costs than the alternatives, particularly when installation time is considered.

Overall, in our opinion the GordsFord unit offers the best appearance and most advantages of any of the HE units.

Ordering

The HE units are available for shipping now.

The cost is US\$ 400 plus shipping. For most locations within the USA shipping will be from \$25 to \$35 for UPS standard ground shipping fully insured. The HE can be ordered pre-painted in "stealth black" color, or with the COBRA logo, for \$20 extra. "Fan ready units, set up pre-drilled and with Rivnut inserts for mounting our twin SPAL 6.5 inch fan kit cost an additional \$30. A separate data sheet for the fan kits is available.

Payment can be prepaid by credit card with PayPal (preferred) or by C.O.D. delivery by UPS with a US Postal Service or Bank Money Order. The additional cost for the UPS C.O.D. service is \$15.

To place an order please send an Email to me at gzonailo@sandwell.com and include the following info:

- Full name
- Shipping address including zip code
- Telephone number for delivery and follow up contact by myself or UPS if required.

Following receipt of order details I will confirm the amount for shipping costs and total amount for PayPal or C.O.D. payment.

If you would like further information please Email, or call me at or 604 649 3533.

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About Gord

A Professional Engineer by training, and in practice, Gord has over 45 years experience in the performance automotive sports starting with Go Kart fabrication and parts, Trans Am sedan enthusiast, and over 15 years direct participation in NHRA drag racing in Modified and Competition Eliminator. A lifelong passion for performance Ford vehicles and Mustangs. In the early days, before the 5.0 L phenomenon, racing a Ford meant developing almost all of our own special engine and chassis parts. Now a keen 03 Cobra and 2014 Shelby GT500 owner, "open track" enthusiast and continuing NHRA and SEMA member.