

# BLOWER HATS FOR SUPERCHARGED ENGINES

Complete service, parts and systems. We can help you upgrade your existing fuel system, or do a complete new one for you.

**Flow Test and Calibration:** We flow test new and used systems with single or multiple stage nozzle configurations, in or out of boost. We also flow test individual components, such as pumps, nozzles, and bypass valves.

**Type of System:** The number of nozzles used will vary depending on the fuel, type of blower hat, and size of supercharger.

**Hat Nozzles Only:** Injects all the fuel into the top of the supercharger. This system is the easiest to understand and tune, but the limited ability to change the distribution makes this system inadequate for large superchargers and high boost levels.

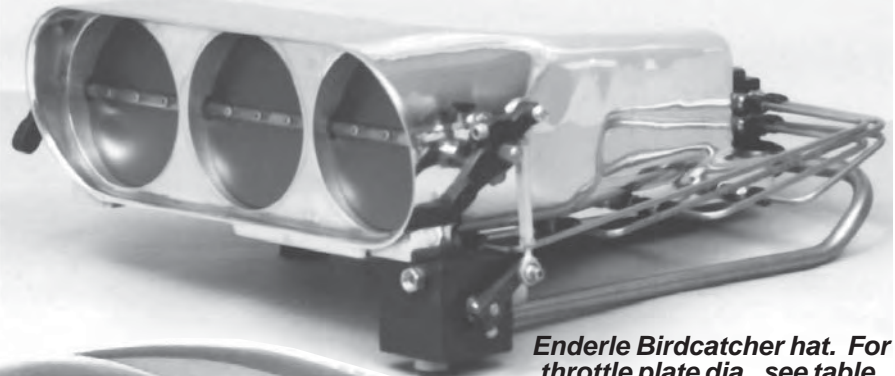
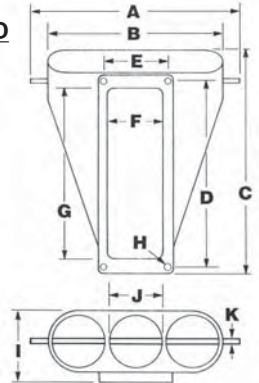
**Hat and Port Nozzles:** The engine will idle and run at small throttle angles on the hat nozzles only. As the RPM increases, fuel pressure rises, and the port check valve will open to allow fuel flow to the port nozzles. Normally has at least one port nozzle in each runner of the intake manifold; allows the fuel distribution to be adjusted to compensate for the air and fuel distribution errors caused by the supercharger and intake manifold.

**Blower Hats:** Throttled air plenum used on the inlet of a supercharged engine. Make sure the hat is large enough to support the air requirement of the engine, but a hat that is too large will cause some loss of driveability at part throttle; for drag racing this is not usually a problem. For the racer who wants a big blower hat appearance but with good driveability, we internally block off part of the blower hat to reduce its air flow.... this is very popular for the street.



## SPECS FOR ENDERLE BLOWER HATS :

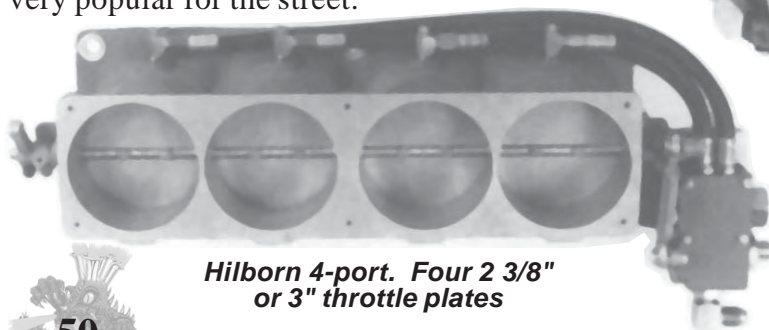
	BUG	BIRD	BUZZARD
A Overall Width	14.68"	18.00"	20.50"
B Casting Width	12.37"	14.60"	16.50"
C Length	15.30"	17.25"	20.00"
D Bolt Center Length	13.25"	13.25"	15.31"
E Bolt Center Width	4.44"	4.44"	4.44"
F Outlet Width	4.00"	4.00"	4.10"
G Outlet Length	12.25"	12.25"	15.06"
H Bolt Hole Diameter	.40"	.40"	.44"
I Overall Height	5.20"	5.80"	6.44"
J Throttle Plate Dia.	3.69"	4.38"	5.00"
K Throttle Shaft Dia.	.31"	.44"	.44"
L Throttle Area Sq. In.	32.07"	45.20"	58.90"



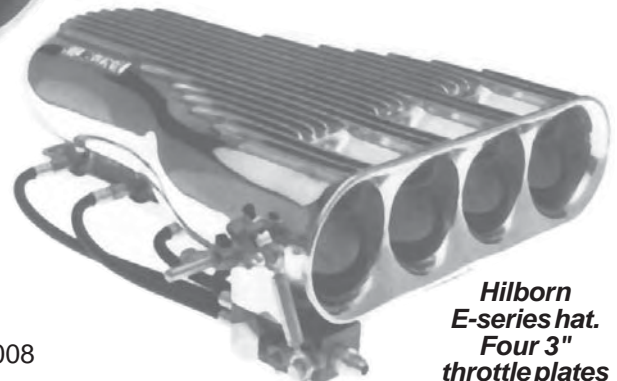
**Enderle Birdcatcher hat. For throttle plate dia., see table. Shown with standard barrel valve...high flow is in stock**



**Hilborn H-series hat, sometimes called a Shot-Gun. Two 5 1/4" throttle plates**



**Hilborn 4-port. Four 2 3/8" or 3" throttle plates**



**Hilborn E-series hat. Four 3" throttle plates**

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