REQUEST FOR FLOW TEST AND CALIBRATION OF FUEL INJECTION UNIT

Kinsler Fuel Injection

PLEASE PRINT 1834 Thunderbird Street *PLEASE PRINT*

Troy, Michigan 48084 USA

Phone: (248) 362-1145 Fax: (248) 362-1032 www.kinsler.com

1) Owners name:_____ Date:_____

It is **important** to have the owner's name. All flow data is filed under the owners name and the date the system is flowed.

2) Return to: Name /Company: _____

Street: _____

City: _____ State: _____ Country: _____ ZIP: _____

3) Phone (area code) and number: Work: (_____) _____

Mobile: (_____) _____ Email : _____

4) Date you will need unit: _____ Note: If this is to be a priority air freight shipment, call before sending unit. Fast delivery may be available at special time and a half labor rates.

5) If flow tested by us previously: Owner's name _____ Flow test date _____

6) Make of unit: _____ Throttle bore size: _____

7) Where will your throttle linkage attach to the manifold: _____

8) If the unit was run on the engine specified, leave the jet in the jet can that it ran best with and record the following information: Main jet diameter: _____ Secondary pressure: _____

High speed pressure setting: _____ High speed jet size: _____ Barrel valve leakage: _____

9) Type of fuel: _____ If Nitro, percentage: _____

10) Type of Racing: ____ Drag Race: Track 1/8 / 1/4 mile Class: _____ Asphalt / Sand Past ET:____ MPH: _____

____ Oval Track: Track length _____ Class: _____ Asphalt / Dirt

____ Road Racing: Class: _____ Car make & style: _____

____ Pulling: Tractor / Truck 2 / 4 WD Class: _____

____ Boat: Hull style: _____ Drive style: _____ Class: _____

11) Approximate altitude (actual elevation) vehicle will operate at: _____

12) Weight of vehicle: _____

13) Type of transmission: _____ Style of converter or clutch: _____ Stall Speed: _____

Trans Brake: _____ If drag race, do you stage the vehicle from wide open throttle with the brake or rev. limiter: _____

Min. Operating RPM seen under racing conditions:_____

14) Type and style of ignition/distributor: _____

15) Fuel tank/cell location: _____ 16) Fuel pump drive ratio: _____

17) Do you run water in the block: _____ In the heads: _____

INFORMATION NEEDED BY KINSLER TO COMPUTER MODEL YOUR ENGINE

18) Engine Make: _____ Cylinder head make and model: _____ # of cylinders: _____

Actual cubic inches: _____ Comp. Ratio: _____ Min. & Max. RPM: _____/_____

Bore: _____ Stroke: _____ Deck height: _____ Connecting Rod length: _____

Firing Order: _____ Ignition timing, total advance:_____° all in @ _____RPM

Piston rings (circle one): Standard tension , Low tension, Gapless Crankcase windage: Std., Low, Dry sump

Camshaft specifications: Flat-tappet or Roller / Solid or Hydraulic lifters Rocker ratio: _____ INT _____ EX

Duration @ .050" lift: _____ INT_____EX

Lobe lift: _____ INT _____EX

Valve Timing in Crankshaft Degrees
Measured at .050" Tappet Lift **Check boxes**

	Open Degrees	Close Degrees
INT	☐ ATDC ☐ BTDC	☐ BBDC ☐ ABDC
EX	☐ ABDC ☐ BBDC	☐ ATDC ☐ ABDC

Lobe separation: _____ Intake lobe installed position:_____ Valve Lash: _.____INT _.____EX

Port dimensions:
Intake Port Length_____" Volume_____cc
Valve size_____

Exhaust port length_____" Volume_____cc
Valve Size_____

Cylinder head flows @_____inches of water

Tested on_____bore size

Alternate method: Less accurate

Head intake port flow _____ CFM @ (circle one) .500" or .550"
Valve lift @ _____ inches of water

Head exhaust port flow _____ CFM @ (circle one) .500" or .550"
Valve lift @ _____ inches of water

Useful if you have, otherwise we will provide our best guess:
Cylinder head flow with intake: _____CFM @ _____inches of water

Valve Lift	Intake CFM	Exhaust CFM
0.100		
0.200		
0.300		
0.400		
0.500		
0.550		
0.600		
0.650		
0.700		
0.750		
0.800		
0.850		
0.900		

Intake manifold runner length: _____

Header style: _____ Primary tube **inside diameter**: _____ Primary tube length: _____

(If stepped header) Secondary tube inside diameter: _____ Secondary tube length:_____

Collector length: _____ Collector tube **inside diameter**: _____Mufflers: _____

19) **If Supercharged**: Supercharger size: _____ Drive ratio: _____ Max. Boost: _____

Type of Supercharger: Roots / Screw / Centrifugal Intercooled type:_____Anticipated Charge Air Temp: _____

20) **If Turbocharged**: Island CFM (peak efficiency) _____

Island Pressure ratio: (over one atmosphere, "gauge boost") _____ Island efficiency %: _____

Surge CFM: (point where surge line intersects pressure ratio line @ 2.0 bar) _____

Turbine nozzle diameter or area: (smallest diameter, opening at exhaust flange entering the turbine) _____

Maximum flow, CFM: (flow @ 2.0 pressure ratio and 40-45% efficiency) _____

21) Nitrous oxide: Specify enrichment fuel for nitrous: _____ (gasoline/methanol) H.P. rating of system: _____

22) Send to us:
   a) Manifold assembly with nozzle hoses and nozzles.
   b) Fuel pump; leave the fittings in it. ***Pump drive is not needed unless service work is required.***
   c) Jet cans, high speed by-pass, shut-off and fuel filter. (leave by-pass valves with jets in them as specified in step #8)

Do Not Send: Fuel tank or general plumbing hoses.
Ramtubes, but do make a note of their length: _____"
Front cover, drive spud, pump pulley-drive assembly, (unless service work is required on these items).

Do Not Put Tape over any fittings.....**it turns to goo !!!**

22) Wrap the unit very carefully in crumpled up newspapers, bubble wrap, or foam cushioning material; at least three inches all around the unit. **Do Not Use Foam Peanuts!**

23) UPS is the best method of shipping. Truck or Air Freight is O.K.
Please insure your equipment for the proper replacement value. **Do Not Ship by Bus**.

ADDITIONAL COMMENTS:

****** ENCLOSE THIS SHEET WITH THE UNIT ******