

30-Apr-12 **EXHAUST LENGTH CALCULATION FOR 4 INTO 1 SYSTEMS.**

OWNER:		Kevin B
CAR:		Renault R10
ENGINE:		1400 Sierra
BORE:	→	76
STROKE:	→	77
CAPACITY:		1396.52
CYLINDERS:	→	4
NOTE:	→	ENTER VALUES ONLY IN CELLS POINTED AT !!!!

PRIMARY LENGTH CALCULATION

Enter degrees of exhaust vlv opening BBDC here → 94 degrees
 Enter average optimum rev range here → 5500 rpm

Primary length

39.35	inches
999.37	mm

PRIMARY ID CALCULATION

ie. Single cylinder volume equals

349.13032	cc
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Primary inside dia

1.21	inches
30.63	mm

SECONDARY ID CALCULATION

Secondary inside dia

1.62	inches
41.26	mm

COLLECTOR CALCULATION

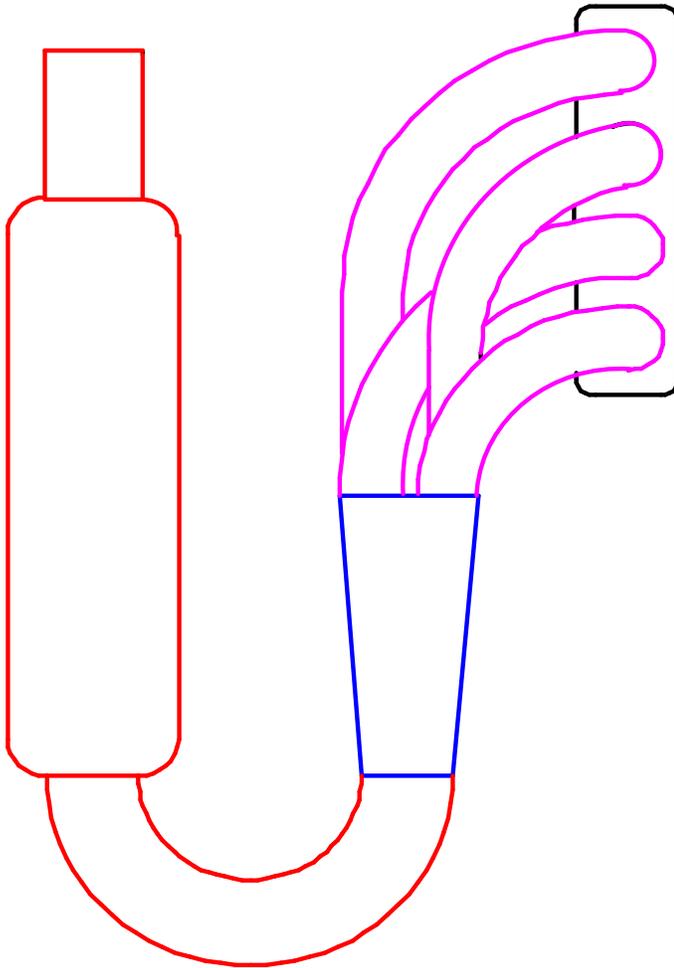
Collector length

5.24	inches
133.13	mm

SECONDARY LENGTH CALCULATION

Secondary length

37.10	inches
942.44	mm



<u>VIOLET DIMENSIONS</u>	<u>LENGTH:</u>	999.37 MILLIMETERS 39.35 INCHES
	<u>DIA:</u>	30.63 MILLIMETERS 1.21 INCHES
<u>BLUE DIMENSIONS</u>	<u>LENGTH</u>	133.13 MILLIMETERS 5.24 INCHES
<u>RED DIMENSIONS</u>	<u>LENGTH:</u>	942.44 MILLIMETERS OR MULTIPLES OF IT 37.10 INCHES OR MULTIPLES OF IT
	<u>DIA:</u>	41.26 MILLIMETERS 1.62 INCHES

- NOTES:
- 1) PLEASE ENSURE THAT ALL PIPE LENGTHS IN VIOLET DIMENSIONS ARE EQUAL.
 - 2) PLEASE ENSURE THAT THE COLLECTOR SHAPE IS CONICAL WITH STRAIGHT SIDES.
 - 3) THE RED DIMENSIONS INCLUDES THE SILENCER BOX.
 - 4) THE ACCURACY OF THE DIMENSION LENGTHS SHOULD NOT EXCEED +/- 3mm OR 1/8 INCH.

