

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
Enter average optimum rev range here

→ 94 degrees
→ 6000 rpm

Primary length

35.82 inches
909.74 mm

PRIMARY ID CALCULATION

ie. Single cylinder volume equals

349.13032 cc

Primary inside dia

1.26 inches
31.99 mm

SECONDARY ID CALCULATION

Secondary inside dia

1.70 inches
43.09 mm

COLLECTOR CALCULATION

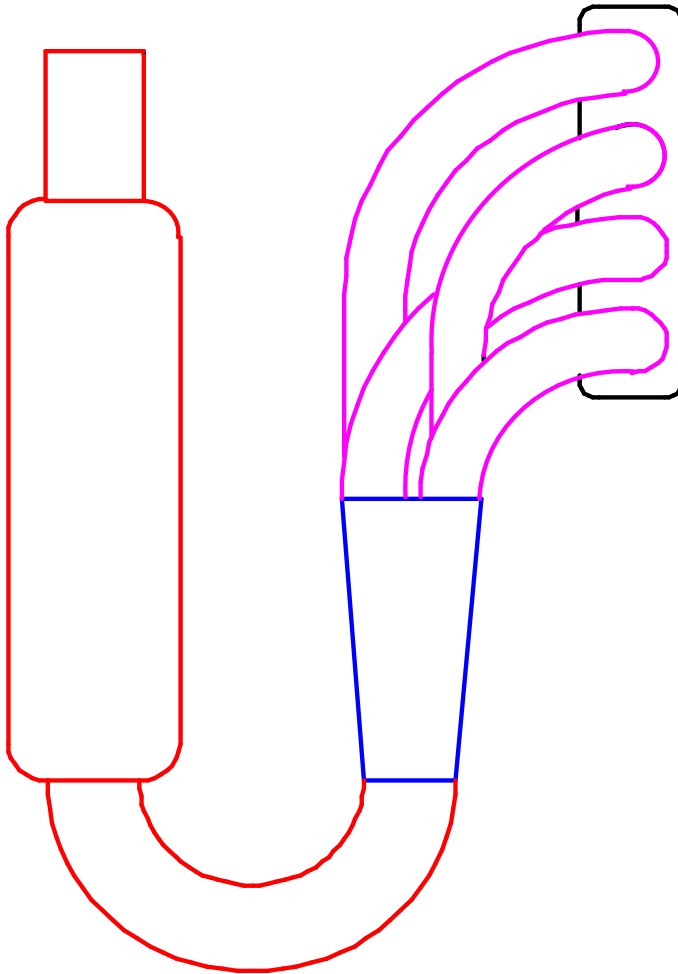
Collector length

5.47 inches
139.05 mm

SECONDARY LENGTH CALCULATION

Secondary length

33.34 inches
846.89 mm



<u>VIOLET DIMENSIONS</u>	<u>LENGTH:</u>	909.74 MILLIMETERS 35.82 INCHES
	<u>DIA:</u>	31.99 MILLIMETERS 1.26 INCHES
<u>BLUE DIMENSIONS</u>	<u>LENGTH</u>	139.05 MILLIMETERS 5.47 INCHES
	<u>RED DIMENSIONS</u>	
	<u>LENGTH:</u>	846.89 MILLIMETERS OR MULTIPLES OF IT 33.34 INCHES OR MULTIPLES OF IT
	<u>DIA:</u>	43.09 MILLIMETERS 1.70 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.

