	697-02 (Renault)	697-04 (Lotus)	my engine	my engine w/ raised pistons		
Piston type	Flat	Raised	Flat	Raised		
Published Compression Ratio	8.6	10.25	-	-		
Bore (mm)	76	76	76	76		
Stroke (mm)	81	81	81	81		
Head Thickness (mm)	80.65	80.65	79.58	79.58	1.07	
Head gasket thickness (mm)	1.27	1.27	1.27	1.27	0.040 head gasket shim	
Head gasket diameter (mm)	78.74	78.74	79.5	79.5		
Swept volume (cc)	367.5	367.5	367.5	367.5		
Total Displacement (cc)	1469.8	1469.8	1469.8	1469.8		
Raised piston volume (cc)	0	8.62	0	8.62		
Head Gasket Volume (cc)	6.2	6.2	6.3	6.3		
Head Volume (cc)	42.16	42.16	38.50	38.50		
Combustion volume (cc)	48.35	39.72	44.80	36.18		
Calculated compression ratio	8.60	10.25	9.20	11.16		
Volume lost in skim (cc)			-3.66			
Assumptions: Published compression ratios are a Renault and Lotus heads have the s The top edge of the piston exactly n	ame volume if the	y have the same th	nickness (i.e. not	,		

The top edge of the piston exactly meets the bottom of the head gasket (confirmed on my engine) My installed flat-top pistons aren't anything special, like being a flat-top raised piston

	697-02 (Renault)	697-04 (Lotus)	my engine	my engine w/ raised pistons	
Piston type	Flat	Raised	Flat	Raised	
Published Compression Ratio	7.6	10.25	-	-	
Bore (mm)	76	76	76	76	
Stroke (mm)	81	81	81	81	
Head Thickness (mm)	80.65	80.65	79.58	79.58	
Head gasket thickness (mm)	1.27	1.27	1.27	1.27	
Head gasket diameter (mm)	78.74	78.74	79.5	79.5	
Swept volume (cc)	367.5	367.5	367.5	367.5	
Total Displacement (cc)	1469.8	1469.8	1469.8	1469.8	
Raised piston volume (cc)	0	15.95	0	15.95	
Head Gasket Volume (cc)	6.2	6.2	6.3	6.3	
Head Volume (cc)	49.49	49.49	38.50	38.50	
Combustion volume (cc)	55.67	39.72	44.80	28.85	
Calculated compression ratio	7.60	10.25	9.20	13.73	
Assumptions: Published compression ratios are as Renault and Lotus heads have the s The top edge of the piston exactly m	ame volume if the neets the bottom of	f the head gasket	,	skimmed)	

My installed flat-top pistons aren't anything special, like being a flat-top raised piston

	697-02 (Renault)	697-04 (Lotus)	my engine	my engine w/ raised pistons	
Piston type	Flat	Raised	Flat	Raised	
Published Compression Ratio	7.6	10.25	-	-	
Bore (mm)	76	76	76	76	
Stroke (mm)	81	81	81	81	
Head Thickness (mm)	80.65	80.65	79.58	79.58	
Head gasket thickness (mm)	1.27	1.27	1.27	1.27	
Head gasket diameter (mm)	78.74	78.74	79.5	79.5	
Swept volume (cc)	367.5	367.5	367.5	367.5	
Total Displacement (cc)	1469.8	1469.8	1469.8	1469.8	
Raised piston volume (cc)	0	15.95	0	15.95	
Head Gasket Volume (cc)	6.2	6.2	6.3	6.3	
Head Volume (cc)	55.67	55.67	38.50	38.50	
Combustion volume (cc)	55.67	39.72	44.80	28.85	
Calculated compression ratio	-	-	9.20	13.73	
Assumptions: Published compression ratios are a Renault and Lotus heads have the s The top edge of the piston exactly n My installed flat-top pistons aren't a	same volume if the neets the bottom of	f the head gasket	,	skimmed)	

	Per Manual	My Engine
Main Bearing Cap #		
Rod Bearing Cap # (centerpund	ched) Clutch	Clutch
	1	Unmarked
	1	1 (4)
	2	4
	2	2 (3)
	3	3
	3	3 (2)
	4	2
	4	4 (1)
	5	1
	Timing Chain	Timing Chain