

contour when it is deepened, you will have to make a template of the chamber shape before you send the head off. The template can be made out of any light gauge metal or even stiff cardboard. (FIGURE 2.5).

Most people like to see the compression ratio pushed up as high as possible. High compression has always been equated with high horsepower. I agree that the compression ratio should be made as high as practicable, but often the manufacturer has already found the limit and built his engines accordingly. All you can do in this instance is check that production tolerances have not lowered the ratio significantly below that which the manufacturer intended.

Something you must always remember when dealing with two-stroke engines is that increasing the compression ratio will not give a power gain equivalent to that which you would pick up with a four-stroke engine.

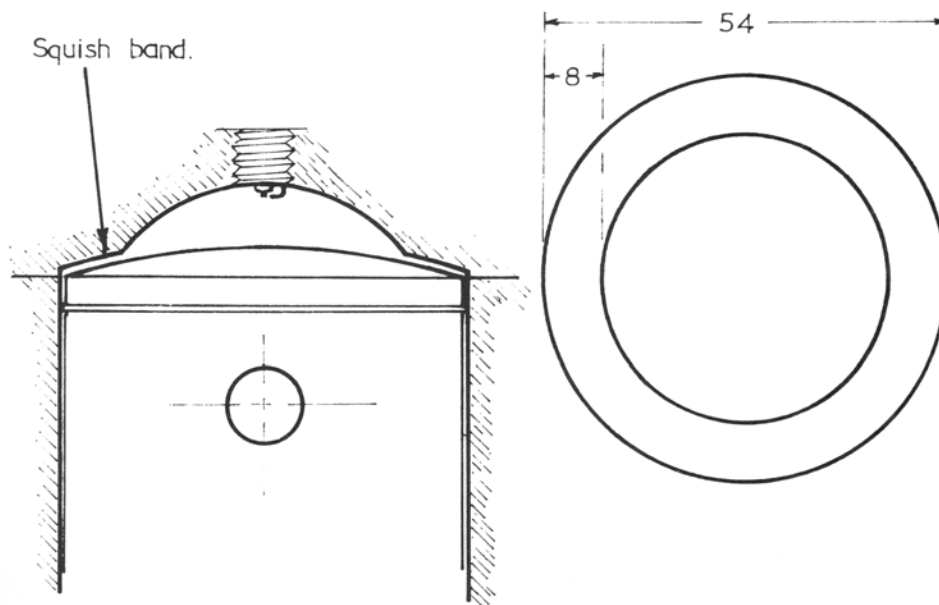


Fig. 2.4 A 50% squish band.

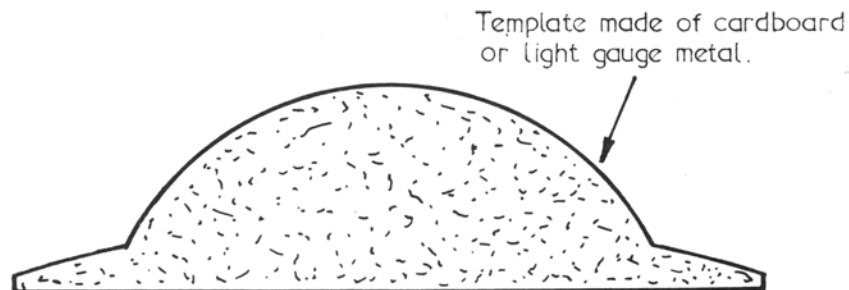


Fig. 2.5 Combustion chamber template.