

## Measuring Piston Protrusion

To measure piston protrusion for the correct selection of a new graded head gasket first clean the piston crown, making certain that no debris is left behind.

Set the piston to approximately top dead centre. Place dial indicator on the cylinder block and set the dial indicator needle onto the crown of the piston - figure 1.

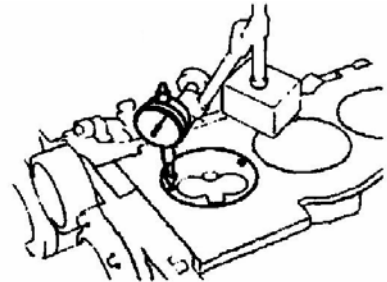


Fig 1

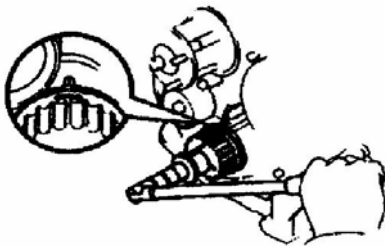


Fig 2

Slowly turn crankshaft, clockwise and counter clockwise, to find the point where piston protrudes the greatest, true top dead centre - figure 2.

When true top dead centre is found, set dial indicator to zero - figure 3.

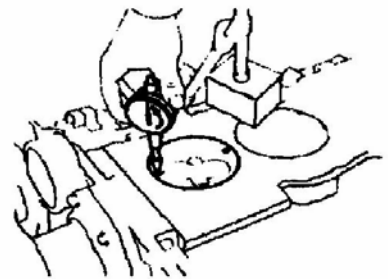


Fig 3

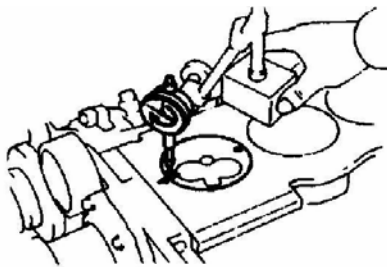


Fig 4

Measure the piston protrusion from the cylinder block by sliding the dial indicator, from piston crown to cylinder block - figure 4.

Measurements should be taken from two points on each piston crown.

Repeat the above steps for ALL cylinders. When selecting a new graded head gasket, use the largest value from all measurements taken as the piston protrusion value.