Cylinder, piston wear

Since there is a difference in cylinder wear in differ-

ent directions, take a side-to-side and a frontto-back

measurement at each of the 3 locations (total of 6

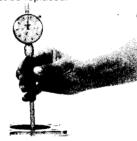
measurements) shown in Fig. 441. If any of the cylinder

inside diameter measurements exceeds the service limit the cylinder will have to be bored to oversize

and then honed. However, if the amount of boring necessary

would make the inside diameter greater than 79.0 mm,

the cylinder block must be replaced.





Cylinder Inside Diameter Measurement

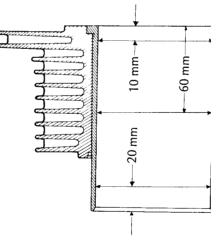


Table 32 **Cylinder Inside Diameter**

Standard	Service Limit	in order to avoid piston seizure.
78.000 ~ 78.019 mm, and less than 0.006 mm difference between any	78.10 mm, and more than 0.05 mm differ- ence between any tw	is by making separate piston and cylinder
two measurements	measurements	measurements and then computing the

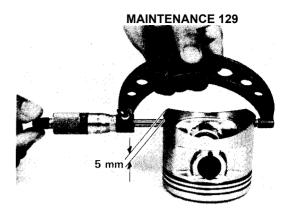


Table 33 Piston Diameter

Standard	Service Limit
77.94~77.96mm	77.8 mm

Table 32 applies only to a cylinder that has not

been bored to oversize, and Table 33 applies only to

the standard size piston. In the case of a rebored

cylinder and oversize piston, the service limit for the

cylinder is the diameter that the cylinder was bored

to plus 0.1 mm and the service limit for the piston is

the oversize piston original diameter minus 0.15 mm

If the exact figure for the rebored diameter is unknown,

it can be roughly determined by measuring the diameter

at the base of the cylinder.

NOTE: Whenever the piston or cylinder block has been replaced with a new one, the motorcycle must

be

broken in the same as with a new machine.

Piston/cylinder clearance

The piston-to-cylinder clearance is measured whenever a piston or the cylinder block is replaced with а new one, or whenever a cylinder is rebored and an

oversize piston installed. The standard pistonto-cylinder

clearance must be adhered to whenever the cylinder

block is replaced or a cylinder rebored. lf only а

piston is replaced, the clearance may exceed the standard

slightly. But it must not be less than the minimum

difference between the two values. Measure the piston diameter as

just described, and measure the cylinder diameter at the very bottom of the cylinder.

Table 34 Piston/Cylinder Clearance

Measure the outside diameter of each piston 5 mm

up from the bottom of the piston at a right angle to

the direction of the piston pin. If the measurement is

under the service limit, replace the piston. **NOTE:** Abnormal wear such as a marked

diagonal

pattern across the piston skirt may mean a bent

connecting rod or crankshaft.

Standard 0.050" "0.069mm

Boring, honing

When boring and honing a cylinder, note the following:

1. Before boring a cylinder, first measure the exact

diameter of the oversize piston, and then, in accord-

ance with the standard clearance given in Table 34,

determine the diameter of the rebore.