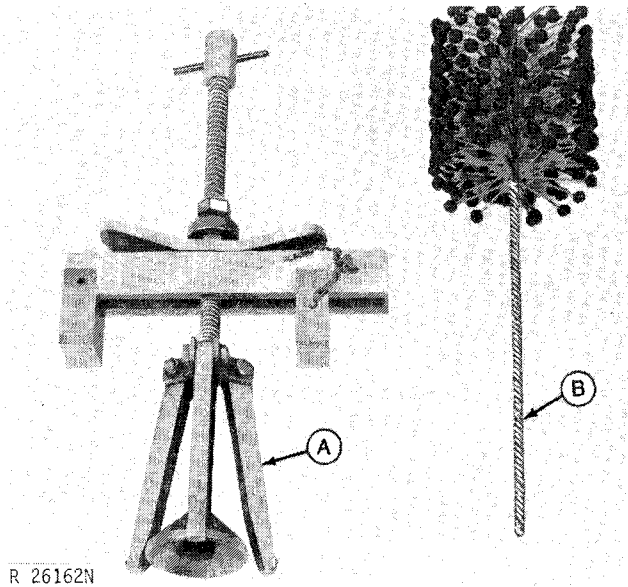


## CYLINDER LINERS

### Special Tools

The following items, or their equivalents, are recommended when performing this job. For increased efficiency, gather them together before beginning the job.



A—D-0162AA (No. 974) Liner Puller\*  
 B—D-17004BR Flex-Hone\*

Fig. 12-Special Tools

\* Service Tools  
 Box 314, Owatonna, MN 55060

Cylinder Liner Holding Fixture (See Special Tools p. 20-35-4).

### Removal

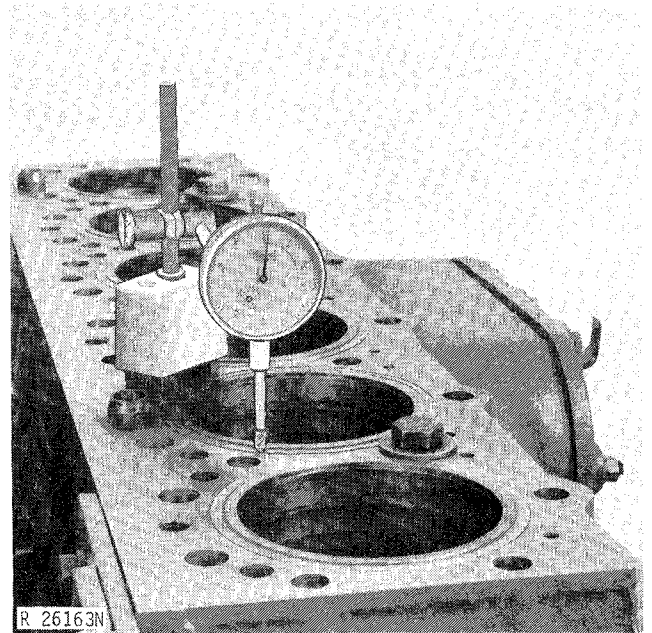
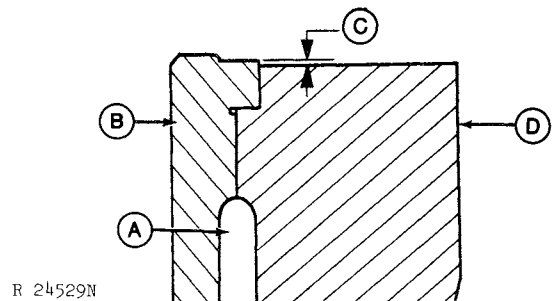


Fig. 13-Measuring Height of Bolted Down Liners

1. Use a dial indicator to measure the height of bolted down liners before removal from block (Fig. 13).



A—Water Passage  
 B—Cylinder Liner  
 C—Liner Height Specification  
 D—Cylinder Block

Fig. 14-Location of Cylinder Liner in Cylinder Block

**NOTE:** Variations in height can give an indication of liner distortion, or liner-piston problems.

#### LINER HEIGHT SPECIFICATION

Height Above

Block . . . . . 0.001 to 0.004 in. (0.03 to 0.10 mm)