

Animation Worksheet: Measure Crankshaft Out-of-Round

Name: _____ Date: _____

1. To measure crankshaft journals for an out-of-round condition, a technician uses a precision tool called a _____.
2. Before taking any measurements, it is critical to clean all journals with _____ to remove oil, dirt, and debris.
3. The micrometer must be clean, _____, and set to zero before you begin.
4. To get an accurate reading, you should place the micrometer _____ and _____ on the lowest part of the journal.
5. A technician should take measurements at three specific locations on the journal: the bottom, the _____, and the _____.
6. After the first set of readings, you must rotate the micrometer _____ degrees to a side-to-side orientation.
7. This second orientation is _____ to the first measurement direction.
8. To check for out-of-round, you must compare the _____ and _____ readings from both orientations.
9. The mathematical formula to determine out-of-round is to _____ the smallest measurement from the largest measurement.
10. Once you have the final result, you must check it against the manufacturer's _____ to see if the crankshaft needs to be machined or replaced.