

Product Data Sheet

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Portable Machinery Analyzer

DynaProbe™ Engine Inspection Tool

DynaProbe is a patented, predictive maintenance tool that measures internal engine components such as:

- Power cylinder condition & wear - liners, rings, ports, head, and valves
- Valve sink and train settings
- Wrist pin and connecting rod clearances (wear & trend)
- Cylinder leakage rates
- Blowby

Designed for high-speed separable and slow-speed integral engines, **DynaProbe** works to help you perform accurate engine inspections (without an engine teardown) safer, faster, easier and cleaner.

DynaProbe significantly reduces maintenance costs by reducing inspection time, and maintenance induced maintenance often caused by tearing down and re-installing parts.

Precision measurements are taken by installing the probe into the spark-plug, fuel injector, or bottom cylinder of the piston. As good air pressure is fed into the cylinder you will determine the condition of rings, liner and valves. By applying a vacuum, you will measure the connecting rod and wrist pin bearing wear.

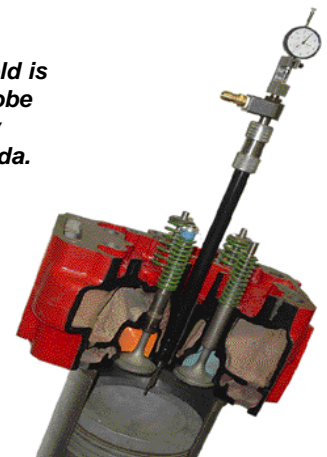


Significant savings with DynaProbe...

- Save millions by postponing fleet overhauls
- Save on maintenance and unplanned downtime
- Reduce overtime and unnecessary callouts
- Reduce inspection time and expense
- Avoid unnecessary teardowns
- Extend period of time between overhauls
- Prevent failures that may result in costly damage



The DynaProbe hand-held is designed after the B-Probe technology, patented by Beta Machinery in Canada.



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DynaProbe Component Parts

Manifold Assembly

The Manifold Assembly houses valves that control the routing of air through the system and valves that control the amount of air flowing through the system.

Regulator/Filter Assembly

The Filter/Regulator Assembly filters and regulates the air supply at a constant 80 psi to the DynaProbe System.

Probe with Dial Indicator

The probe is inserted into the spark plug hole. The probe tip and stylus are mounted on the end of the probe.

Probe Tips

Probe tips ensure that the Probe Stylus (see Probe Stylus) is exactly perpendicular to the piston face. Probe Tips come in different lengths and angles. Probe Tips screw onto the Probe.

Probe Stylus

The Probe Stylus is inserted in the Probe Tip and is used to measure bearing clearances.

Hose A

40 ft. with a 3/4" diameter hose with 3/4" NPT crows foot to 3/4" NPT crows foot. Hose A connects to the station supply and to the Filter Regulator Assembly.

Hose B

40 ft. with a 3/4" diameter hose with 1/2" NPT QD male to 1/2" NPT QD female. Hose B connects the Filter Regulator Assembly to the Manifold Assembly.

Hose C

5 ft. with a 3/4" diameter hose with 1/2" NPT QD female to 1/2" NPT QD female. Hose C connects the Manifold Assembly to the Probe Body.

Hose D

25 ft. with a 3/4" diameter hose with 1/2" NPT QD female to 1/2" NPT QD male. Hose D connects the Manifold Assembly to the Auxiliary Venturi.

Optional

Items

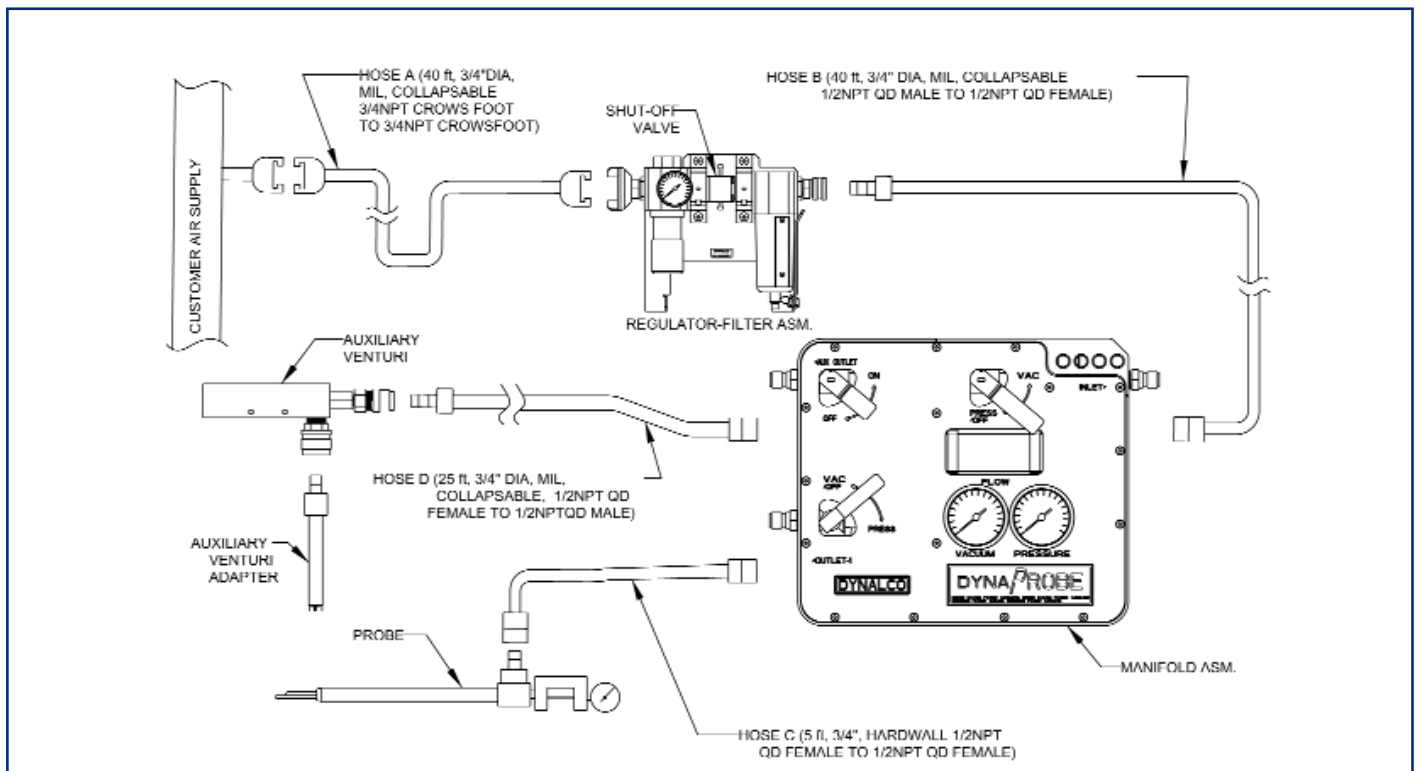
Universal Adapter Kit

The Universal Adapter Kit is used to install the probe through the fuel injector opening.

Auxiliary Venturi/Auxiliary Venturi Adapter

The Auxiliary Venturi and Adapter are used when making a master rod bearing check on an articulated engine.

DynaProbe Interconnection Diagram



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