

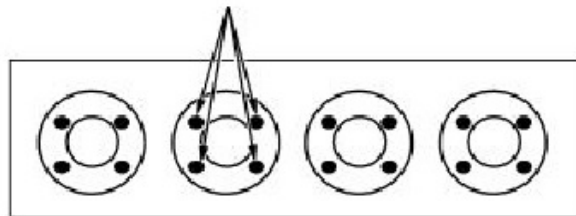


## Head Gasket Selection on Ford & Ford-New Holland Diesel Tractor Engines

The AERA Technical Committee offers the following information to consider during head gasket selection for Ford & Ford-New Holland diesel tractor engines. This information should be referenced before engine disassembly as different head gaskets are used for these series engines.

Head gasket selection is based on the piston stand-out (piston height or piston protrusion) observed during engine assembly. Piston stand-out is the distance the piston crown is when that location is at top dead center. This measurement should be measured in four locations above the piston pin as shown in the illustration below. Take an average of the measurements observed for all locations and use that figure for you piston stand-out specification.

### Measuring Points



In the chart shown below, the standard head gasket is the thinnest listed one listed. AERA is currently unaware of an aftermarket source for any of the head gaskets listed below and availability is limited to the equipment or engine manufacturer. Failure to select the proper head gasket may lead to engine damage or an engine lacking power.

Caution is again expressed as additional use of these engines by other equipment manufacturers does not assure one that the same gasket thicknesses are required. Reports of gasket thicknesses of over .050" (1.27 MM) have been observed for some engines.



Tractor Model	Piston Height Measurement	Gasket Free Thickness	Part Number SBA-
1100	— —	1.30mm (0.051 in.) 1.55mm (0.061 in.)	111146140 111146621
1110	0.73-0.85mm (0.029-0.033 in.) 0.85-0.99mm (0.033-0.039 in.)	1.55mm (0.061 in.) 1.70mm (0.067 in.)	111146621 111146622
1200, 1300	— —	1.45mm (0.057 in.) 1.55mm (0.061 in.)	111146160 111146631
1210	0.35-0.45mm (0.014-0.018 in.) 0.45-0.55mm (0.018-0.022 in.) 0.55-0.65mm (0.022-0.026 in.)	1.1mm (0.043 in.) 1.2mm (0.047 in.) 1.3mm (0.051 in.)	111146820 111146830 111146840
1310	0.45-0.55mm (0.018-0.022 in.) 0.55-0.65mm (0.022-0.026 in.) 0.65-0.75mm (0.026-0.030 in.)	1.2mm (0.047 in.) 1.3mm (0.051 in.) 1.4mm (0.055 in.)	111146880 111146890 111146900
1510	0.20-0.30mm (0.008-0.012 in.) 0.30-0.40mm (0.012-0.016 in.) 0.40-0.50mm (0.016-0.020 in.)	1.45mm (0.057 in.) 1.55mm (0.061 in.) 1.65mm (0.065 in.)	111146920 111146851 111146861
1710	0.45-0.58mm (0.018-0.023 in.) 0.58-0.75mm (0.023-0.030 in.)	1.45mm (0.057 in.) 1.55mm (0.061 in.)	111146561 111146651
1900	— —	1.3mm (0.051 in.) 1.4mm (0.055 in.)	111146530 111146670
1910	Under 0.60mm (0.024 in.) Over 0.60mm (0.024 in.)	1.5mm (0.059 in.) 1.7mm (0.067 in.)	111146930 111146940
2110	Under 0.60mm (0.024 in.) Over 0.60mm (0.024 in.)	1.5mm (0.059 in.) 1.7mm (0.067 in.)	111146733 111146783

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