






## John Deere 4.5 & 6.8 Powertech Ring Sets.

Effective March 15th, 2008, we have upgraded our cylinder kits for turbocharged 350 Series Powertech applications. These cylinder kits are suitable to all 4.5 and 6.8 Powertech engines, but should not be interchanged with previous part numbers within the same engine.

The differences between these cylinder kits and the earlier versions are the piston and piston rings. The upgraded versions include torsional keystone top rings for improved reliability and engine life. These ring sets may not be used with the earlier style pistons. Great care should be taken not to intermix current pistons and ring sets with earlier versions of these components.

Below is a drawing showing current and former ring set components. If you have additional questions, please contact Reliance Technical Support.

	Former Ring Set NRE66271	Former Ring Set NRE66820	Current Ring Set NRE507852
Top Ring Profile	Full Keystone 	Full Keystone 	Torsional Keystone 
Dimensions (Height x Width)	2.35 x 3.75mm 0.092 x 0.147"	3.00 x 4.35mm 0.118 x 0.171"	3.00 x 4.35mm 0.118 x 0.171"
Middle Ring Profile	Reverse Torsional 	Reverse Torsional 	Reverse Torsional 
Dimensions (Height x Width)	2.35 x 4.70mm 0.092 x 0.185"	2.35 x 4.70mm 0.092 x 0.185"	2.35 x 4.70mm 0.092 x 0.185"
Bottom Ring Profile	Coil Spring Loaded Beveled Oil Control Ring	Coil Spring Loaded Beveled Oil Control Ring	Coil Spring Loaded Beveled Oil Control Ring
Dimensions (Height x Width)	3.45 x 2.80mm 0.135 x 0.110"	3.45 x 3.15mm 0.135 x 0.124"	3.45 x 2.80mm 0.135 x 0.110"
Used on Pistons Marked	NRE505100, NRE505101	NRE505102	NRE509540, NRE515372
Used in Cylinder Kits	NRE505110, NRE505111	NRE505112	NRE507850, NRE507920

Please note that each set differs only slightly. Caution should be exercised, as none of these are interchangeable and must be used in combination with the pistons and cylinder kits as shown only.