

## *Introduction to International Harvester® / Navistar® Section*

### *Engine models covered by this User's Guide*






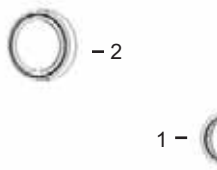
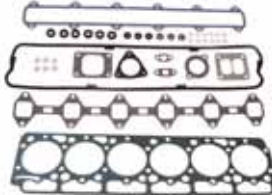
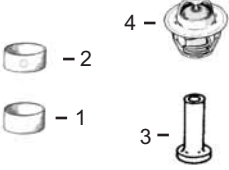


<i>ENGINE MODEL</i>	<i>COMMENTS</i>	<i>BORE</i>	<i>PAGE</i>
<b>DT360</b>	From ESN 90976	101.90 mm	<b>N01</b>
<b>DT414</b>		109.23 mm	<b>N02</b>
<b>DT436</b>		109.23 mm	<b>N03</b>
<b>DT466</b>	To ESN 440,035, Narrow Bearings	109.23 mm	<b>N04</b>
<b>DT466</b>	ESN 440,036 - 532,980, Wide Bearings	109.23 mm	<b>N05</b>

### *Maxiforce Engine Kit Composition for International Harvester® / Navistar® Engine Applications*





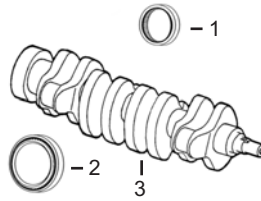
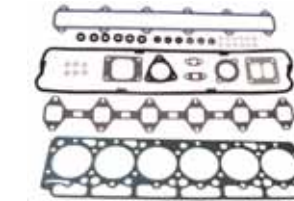
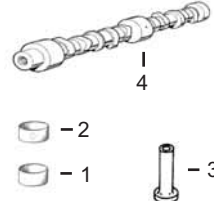
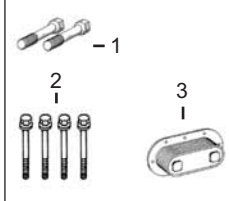




**NOK: Engine Overhaul Kits Include:** All required Piston-Liner Kits, Main Bearings, Connecting Rod Bearings, Front Crankshaft Seals, Rear Crankshaft Seals, O/H Set, Cylinder Head, O/H Set, Crankcase, Camshaft Bushings, Connecting Rod Bushings.

**NIK: Engine In-Frame Kits Include:** All required Piston-Liner Kits, Main Bearings, Connecting Rod Bearings, O/H Set, Cylinder Head, Oil Suction Gasket, Oil Suction Tube Gasket, Oil Pan Gasket.



INTERNATIONAL HARVESTER	    				
Engine & Equipment Model	Engine In-Frame Kit	Piston-Liner Kit	Ring, Piston	Main Bearing Set	Con Rod Bearing Set
<b>DT360</b>  IHC NAVISTAR  6 Cyl  Bore: 4.01 in 101.90 mm  From ESN 39375	<b>1817253</b>	<b>1817250 (3)</b> Consists of: a) 1817178 (3) b) 1809935 c) 1809938	1817251 (3)	1823859 Std. 1823860 .010 1823861 .020  <b>Set of 7 Pairs</b>	1823863 Std. 1823864 .010 1823865 .020  <b>Set of 6 Pairs</b>
					
	1) Front Seal 2) Rear Seal	1) O/H Set, Cyl. Head 2) O/H Set, Crankcase 3) Head Gasket 4) Oil Pan Gasket 5) Oil Suction Gasket 6) Gasket, Intake Manifold		1) Bush, Con Rod 2) Bushing, Cam 3) Tappet 4) Thermostat	1) Oil Pump 2) Water Pump
	1) 690437 2) 1809964	1) 1817255 2) 1817256 3) 1819546 4) 671825 5) 1802867 6) 682199		1) 675006 2) 676679 3) 1802340 4) 1801191 (180°)	1) 1802666 (1) 1808832 (2) 2) 1815538
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Seal, Stem	1) Spring, Valve
	676687	1810086	1) 671602 2) 671599	1) 675439 2) 1815374	1) 682064

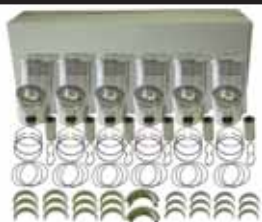



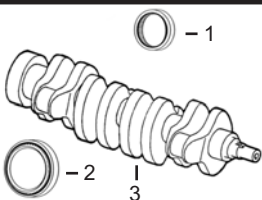
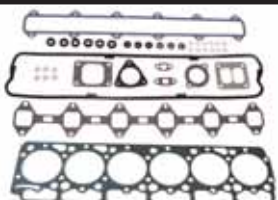
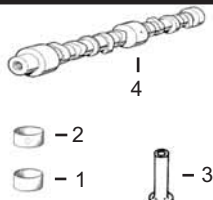
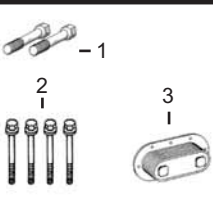




(1) Turbocharged.  
 (2) Turbocharged, Aftercooled.  
 (3) Replace in sets only for ESN 39375 to 90975

<b>INTERNATIONAL HARVESTER</b> <b>Engine &amp; Equipment Model</b> <b>DT414</b>  <b>IHC NAVISTAR</b>  <b>6 Cyl</b>  Bore: 4.3005 in 109.23 mm  Stroke: 4.75 in 120.70 mm  <b>APPLICATIONS:</b> <b>AGRICULTURAL</b> 915 1066 1086								
	<b>1) Engine Overhaul Kit</b>		<b>Piston-Liner Kit</b>		<b>Main Bearing Set</b>		<b>Con Rod Bearing Set</b>	
	<b>1) NOKDT414</b>		<b>684260</b> Consists of: a) 684251 b) 1346908 c) 1810504 d) 680086		1823847 Std.		1823855 Std.	
	<b>2) Engine In-Frame Kit</b>				1823848 .010		1823856 .010	
<b>2) NIKDT414</b>				1823849 .020		1823857 .020		
				1823850 .030		1823858 .030		
				<b>Set of 7 Pairs</b>		<b>Set of 6 Pairs</b>		
								
<b>1) Front Seal</b> <b>2) Rear Seal</b>		<b>1) O/H Set, Cyl. Head</b> <b>2) O/H Set, Crankcase</b>		<b>1) Bush, Con Rod</b> <b>2) Bushing, Cam</b>		<b>1) Con Rod Bolts</b> <b>2) Head Bolts</b> <b>3) Oil Cooler</b>		
<b>3) Crankshaft</b>		<b>3) Head Gasket</b> <b>4) Oil Pan Gasket</b> <b>5) Oil Suction Gasket</b> <b>6) Gasket, Oil Suction Tube</b> <b>7) Gasket, Exhaust Manifold</b>		<b>3) Tappet</b> <b>4) Camshaft</b>				
1) 690437 2) 1809964 3) 675050		1) 1817254 2) 674399 3) 1819547 4) 671827 5) 1802867 6) 671821 7) 1349062		1) 675006 2) 680117 3) 684729 1802340 4) 1802337		1) 676679 2) 676119 x6 676120 x20 3) 1810171		
		<b>Valve Train Kit (3)</b> 1) Valve, Intake 2) Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Guide, Valve 2) Lock, Valve 3) Valve Rotator		
<b>NVK400 (3)</b>		1) 675046 x6 2) 676865 x6		1) 671559 x6 2) 671563 x6		1) 675439 x12 2) 76951 x24 3) 1811581 x12		
								
Thermostat		Oil Pump		Water Pump				
1801191 (180°)		1802666 (1) 1808832 (2)		673162				

(1) Turbocharged, 1.0" Rotor. To ESN 466,775.

(2) Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(3) **Valve Train Kit** include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.





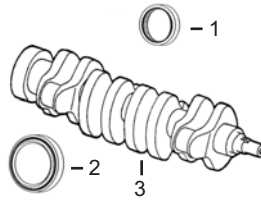
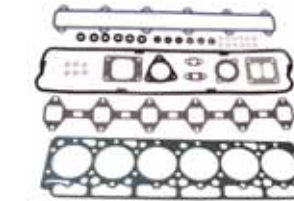
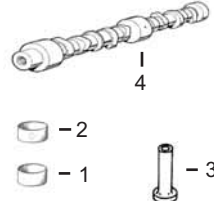
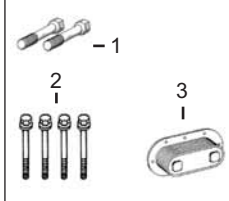




<b>INTERNATIONAL HARVESTER</b> <b>Engine &amp; Equipment Model</b> <b>DT436</b>  <b>IHC</b> <b>NAVISTAR</b>  <b>6 Cyl</b>  Bore: 4.3005 in 109.23 mm  Stroke: 5.04 in 128.00 mm  <b>APPLICATIONS:</b> <b>AGRICULTURAL</b> 1460 1480 Up to MSN 24.000 1466 1486 1566 1586 3388 4166 4186 5088 6388				
	<b>1) Engine Overhaul Kit</b> <b>1) NOKDT436</b> <b>2) Engine In-Frame Kit</b> <b>2) NIKDT436</b>	<b>Piston-Liner Kit</b> <b>684261</b> Consists of: a) 684253 b) 1346908 c) 1810504 d) 680086	<b>Main Bearing Set</b> 1823847 Std. 1823848 .010 1823849 .020 1823850 .030  <b>Set of 7 Pairs</b>	<b>Con Rod Bearing Set</b> 1823855 Std. 1823856 .010 1823857 .020 1823858 .030  <b>Set of 6 Pairs</b>
				
<b>1) Front Seal</b> <b>2) Rear Seal</b> <b>3) Crankshaft</b>	<b>1) O/H Set, Cyl. Head</b> <b>2) O/H Set, Crankcase</b>  3) Head Gasket 4) Oil Pan Gasket 5) Oil Suction Gasket 6) Gasket, Oil Suction Tube 7) Gasket, Exhaust Manifold	<b>1) Bush, Con Rod</b> <b>2) Bushing, Cam</b>  3) Tappet 4) Camshaft	<b>1) Con Rod Bolts</b> <b>2) Head Bolts</b> <b>3) Oil Cooler</b>	
1) 690437 2) 1809964 3) 675051	1) 1817254 2) 674399 3) 1819547 4) 671827 5) 1802867 6) 671821 7) 1349062	1) 675006 2) 680117 3) 684729 1802340 4) 1802337	1) 676679 2) 676119 x6 676120 x20 3) 1810171	
	<b>Valve Train Kit (3)</b> 1) Valve, Intake 2) Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Valve Rotator	1) Spring, Valve 2) Seal, Stem 3) Fuel Injector Tube
<b>NVK400 (3)</b>	1) 675046 x6 2) 676865 x6	1) 671559 x6 2) 671563 x6	1) 675439 x12 2) 76951 x24 3) 1811581 x12	1) 682064 x12 2) 681234 x6 3) 675442 x6
				
Thermostat	Oil Pump	Water Pump		
1801191 (180°)	1802666 (1) 1808832 (2)	673162		

(1) Turbocharged, 1.0" Rotor. To ESN 466,775.

(2) Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(3) **Valve Train Kit** include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.



<b>INTERNATIONAL HARVESTER</b> <b>Engine &amp; Equipment Model</b> <b>DT466</b> To ESN 440,035 <b>Narrow Bearings</b> Rod Bearing Width: 1.20" Main Bearing Width: 1.225" <b>IHC</b> <b>NAVISTAR</b> <b>6 Cyl</b> Bore: 4.3005 in 109.23 mm Stroke: 5.35 in 135.90 mm <b>APPLICATIONS:</b> <b>AGRICULTURAL</b> 1470 5488 Early 1480 Early 6588 3588 6788 3788 7288 Early 4366 Early 7388 Early 4386				
	<b>1) Engine Overhaul Kit</b>	<b>Piston-Liner Kit</b>	<b>Main Bearing Set</b>	<b>Con Rod Bearing Set</b>
<b>1) NOKDT466N</b>	<b>1817645</b> Consists of: a) 1817520 b) 1817247 c) 1810504 d) 680086	1823847 Std. 1823848 .010 1823849 .020 1823850 .030	1823855 Std. 1823856 .010 1823857 .020 1823858 .030	
<b>2) Engine In-Frame Kit</b>		<b>Set of 7 Pairs</b>		
<b>2) 1825442</b>		<b>Set of 6 Pairs</b>		
				
<b>1) Front Seal</b> <b>2) Rear Seal</b>	<b>1) O/H Set, Cyl. Head</b> <b>2) O/H Set, Crankcase</b>	<b>1) Bush, Con Rod</b> <b>2) Bushing, Cam</b>	<b>1) Con Rod Bolts</b> <b>2) Head Bolts</b> <b>3) Oil Cooler</b>	
<b>3) Crankshaft</b>	<b>3) Head Gasket</b> <b>4) Oil Pan Gasket</b> <b>5) Oil Suction Gasket</b> <b>6) Gasket, Oil Suction Tube</b> <b>7) Gasket, Exhaust Manifold</b>	<b>3) Tappet</b> <b>4) Camshaft</b>		
<b>1) 690437</b> <b>2) 1809964</b> <b>3) 675669</b>	<b>1) 1817254</b> <b>2) 674399</b> <b>3) 1819547</b> <b>4) 671827</b> <b>5) 1802867</b> <b>6) 671821</b> <b>7) 1349062</b>	<b>1) 675006</b> <b>2) 680117</b> <b>3) 684729</b> 1802340 <b>4) 1802337</b>	<b>1) 676679</b> <b>2) 676119 x6</b> 676120 x20 <b>3) 1810171</b>	
	<b>Valve Train Kit (7)</b>	<b>1) Valve, Intake</b> <b>2) Valve, Exhaust</b>	<b>1) Guide, Valve</b> <b>2) Lock, Valve</b> <b>3) Valve Rotator</b>	<b>1) Spring, Valve</b> <b>2) Seal, Stem</b> <b>3) Fuel Injector Tube</b>
	<b>NVK400 (7)</b>	<b>1) 675046 x6</b> <b>2) 676865 x6</b>	<b>1) 671559 x6</b> <b>2) 671563 x6</b>	<b>1) 675439 x12 (1)</b> 1815264 x12 (2) <b>2) 76951 x24</b> 1811581 x12 <b>1) 682064 x12</b> <b>2) 681234 x6 (1)</b> 1815374 x6 (2) <b>3) 675442 x6</b>
				
<b>Thermostat</b>	<b>Oil Pump</b>	<b>Water Pump</b>		
1801191 (180°)	1802666 (3) 1808832 (4)	1815538 (5) 673162 (6)		

(1) To ESN 594,839.

(2) From ESN 594,840.





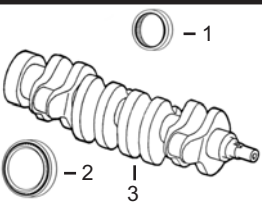
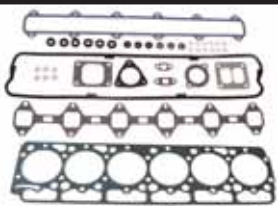
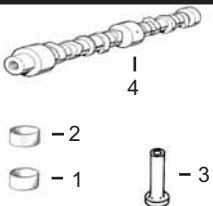
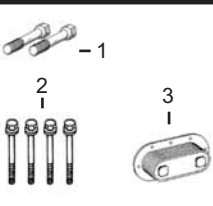




(3) Turbocharged, 1.0" Rotor. To ESN 466,775.

(4) Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(5) Use for truck applications.

(6) Use for AG applications.

(7) **Valve Train Kit** include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

<b>INTERNATIONAL HARVESTER</b> <b>Engine &amp; Equipment Model</b> <b>DT466</b> ESN 440,036 - 532,980 <b>Wide Bearings</b> Rod Bearing Width: 1.26" Main Bearing Width: 1.229" <b>IHC</b> <b>NAVISTAR</b> <b>6 Cyl</b> Bore: 4.3005 in 109.23 mm Stroke: 5.35 in 135.90 mm <b>APPLICATIONS:</b> <b>AGRICULTURAL</b> 1660 Early 1680 Early 5488 Late 7288 Late 7488				
	<b>1) Engine Overhaul Kit</b>	<b>Piston-Liner Kit</b>	<b>Main Bearing Set</b>	<b>Con Rod Bearing Set</b>
	<b>1) NOKDT466W</b>	<b>1817645</b> Consists of: a) 1817520 b) 1817247 c) 1810504 d) 680086	1823843 Std. 1823844 .010 1823845 .020	1823851 Std. 1823852 .010 1823853 .020
	<b>2) Engine In-Frame Kit</b>		<b>2) 1825443</b>	<b>Set of 7 Pairs</b>
				
<b>1) Front Seal</b> <b>2) Rear Seal</b>	<b>1) O/H Set, Cyl. Head</b> <b>2) O/H Set, Crankcase</b>	<b>1) Bush, Con Rod</b> <b>2) Bushing, Cam</b>	<b>1) Con Rod Bolts</b> <b>2) Head Bolts</b> <b>3) Oil Cooler</b>	
<b>3) Crankshaft</b>	<b>3) Head Gasket</b> <b>4) Oil Pan Gasket</b> <b>5) Oil Suction Gasket</b> <b>6) Gasket, Oil Suction Tube</b> <b>7) Gasket, Exhaust Manifold</b>	<b>3) Tappet</b> <b>4) Camshaft</b>		
<b>1) 690437</b> <b>2) 1809964</b> <b>3) 675669</b>	<b>1) 1817254</b> <b>2) 674399</b> <b>3) 1819547</b> <b>4) 671827</b> <b>5) 1802867</b> <b>6) 671821</b> <b>7) 1349062</b>	<b>1) 675006</b> <b>2) 680117</b> <b>3) 684729</b> 1802340 <b>4) 1802337</b>	<b>1) 676679</b> <b>2) 676119 x6</b> 676120 x20 <b>3) 1810171</b>	
	<b>Valve Train Kit (7)</b>	<b>1) Valve, Intake</b> <b>2) Valve, Exhaust</b>	Insert, Valve <b>1) Intake</b> <b>2) Exhaust</b>	<b>1) Guide, Valve</b> <b>2) Lock, Valve</b> <b>3) Valve Rotator</b>
	<b>NVK400 (7)</b>	<b>1) 675046 x6</b> <b>2) 676865 x6</b>	<b>1) 671559 x6</b> <b>2) 671563 x6</b>	<b>1) 675439 x12 (1)</b> 1815264 x12 (2) <b>2) 76951 x24</b> <b>3) 1811581 x12</b>
				
Thermostat		Oil Pump		Water Pump
1801191 (180°)		1802666 (3) 1808832 (4)		1815538 (5) 673162 (6)

(1) To ESN 594,839.  
 (2) From ESN 594,840.  
 (3) Turbocharged, 1.0" Rotor. To ESN 466,775.  
 (4) Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.

(5) Use for truck applications.  
 (6) Use for AG applications.  
 (7) Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.