

JOHN DEERE



ENGINE: 164 Diesel (Mid)

BORE: 4.0157" 3 Cyl Diesel NOTES: 1.1875" Piston Pin, O-Ring Grooves In Block, 7.720" OAL Liners

APPLICATION: Backhoe Loaders: JD310 Thru 189323; Power Units: Early 3164D;
Tractors: 1020(E) ESN 85100-199742; 1120(E) ESN 75000-199742;
Tractors: 1520 After ESN 160309; 1530 Thru ESN 179600;

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	954213	In-Frame Kit				I
	1	955213	Out-of-Frame Kit		O		
	1	956213	Major Kit	M			
	3	151627	Sleeve & Piston Assembly	M	O		I
	3	151625	Piston Assembly				
	3	151423	Liner Assembly (1)				
	3	151424	Liner O-Ring Package				
	3	151478	Block Repair Sleeve, Lower Liner Pilot Bore (Grooves In Blk)				
	3	151626	Piston Ring Set (1-1/8K 1-3/32 1-5MM)				
	3	251111	STD Rod Bearing	M	O		I
	3	251112	.010 Rod Bearing				
	3	251113	.020 Rod Bearing				
	3	251114	.030 Rod Bearing				
	1	251262	STD Main Bearing Set	M	O		I
	1	251263	.010 Main Bearing Set				
	1	251264	.020 Main Bearing Set				
	1	251265	.030 Main Bearing Set				
	1	351673	Head Gasket Set				I
	1	351123	Head Gasket				
	1	351328	Valve Cover Gasket (Cork) (2)				
	1	351148	Valve Cover Gasket (SEMR) (2)				
	6	351161	Valve Seal (O-Ring)				
	3	351657	Exhaust Manifold Gasket				
	1	351674	Full Gasket Set w/Lip Seals	M	O		
	1	351675	Overhaul Gasket Set wo/Seals				
	1	351147	Lower Gasket Set w/Lip Seals				
	1	351259	Crankcase Gasket Set wo/Seals				
	1	351329	Block Gasket Set				
	1	351661	Timing Cover Gasket				
	1	351126	Pan Gasket (Sheet Metal Pan)				
	1	351127	Pan Gasket (Cast or Aluminum Pan)				
	1	351311	Pan Gasket Set (2-Gaskets, 2-O-Rings, 1-D-Ring)				I
	1	351128	Front Crank Seal	M	O		
	1	351228	Front Crank Seal Kit (Includes Wear Sleeve)				
	1	351129	Rear Crank Seal Kit	M	O		
	3	251421	Pin Bushing (Boreable)	M			
	3	251422	Pin Bushing (Honeable)				
	6	751168	Rod Bolt: Rods Marked T20007 (2.125" Length)	M	O		I
	6	751128	Rod Bolt: Rods Marked R81410 (2.375" Length)				
	14	751326	Head Bolt, Early Blocks (1/2 x 4.000")				
	14	751329	Head Bolt, Late Blocks (1/2 x 4.250")				
	14	751327	Head Bolt Washer				

(1)Liner Shims: .002 - 151475 / .004 - 151476

(2)Special Valve Cover Screw - 751256

JD-164-F

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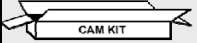
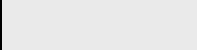
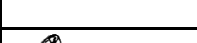
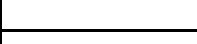
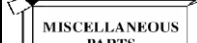
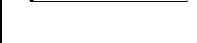
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	959511	Camshaft Kit					C
	1	959327	Basic Valve Kit				B	
	1	959127	Valve Train Kit				V	
	1	551134	Camshaft "Use w/Screw-In Tach Drive (3)"					C
	1	551112	Cam Thrust Plate					C
	6	551113	Tappet					C
	3	451221	STD Exhaust Valve (4)		V		B	
	3	451222	STD Intake Valve (5)		V		B	
	6	401149	Ex/In Service Repair Valve Guide (.564 OD / 2.750" OAL) (6)					
	6	451115	Valve Spring		V		B	
	6	451187	Rotator "Will Replace 451411 Spring Retainer"		V			
	6	451198	Valve Wear Cap					
	12	451164	Keeper (Half)		V		B	
	3	451519	Exhaust Seat, OEM Seat (1.412 x 1.638 x .218)					
	3	401186	Exhaust Seat, STD Cutter (1.375 x 1.687 x .219)					
	3	401168	Intake Seat, STD Cutter (1.625 x 1.875 x .219)					
	6	451124	Rocker Arm					
	1	451125	Rocker Arm Shaft					
	2	451165	Rocker Arm Shaft Plug (.464") "Early .500" Plug - 451521"					
	1	551137	Cam Gear (48 Teeth)					
	1	551138	Crank Gear (24 Teeth)					
	1	551166	Upper Idler Gear (55 Teeth)					
	1	551142	Upper Idler Gear Bushing (.840" Wide)					
	1	551141	Lower Idler Gear (45 Teeth)					
	1	551143	Lower Idler Gear Bushing (.750" Wide)					
	1	551145	Oil Pump Drive Gear					
	6	551342	Push Rod					
	1	651128	New Oil Pump "May Need 651132 Tube & 651133 Inlet"					
	1	651129	Oil Pump Kit, w/Original Pump (1.417" Gears)					
	1	651131	Oil Pump Kit, Replacement Pump (1.625" Gears)					
	1	651132	Oil Pump Outlet Tube (2 Bends) "Use w/Repl Pump"					
	1	651133	Oil Pump Inlet Screen, Late (2 Bolt Mtg Flange)					
	1	651142	Oil Pressure Regulator Valve Kit					
	1	651151	Oil Cooler (10 Plate) "May Need Installation Kit 651252"					
	1	751111	Crankshaft					
	3	751328	Connecting Rod					
	1	851188	Fuel Pump: Except 1120 Tractor					
	1	851247	Fuel Pump: 1120 Tractor					
	1	851163	Thermostat (180 Degree) (7)					
	1	851317	Water Pump					
	1	851321	Water Pump Kit					

(3)Late Screw-In Tach Drive: Shaft Type - 551136 / Gear Type (.541 Gear Length) - 551146 / Gear Type (.711 Gear Length) - 551147

(4)Oversizes: .003 - 451513 / .015 - 451514 / .030 - 451515

(5)Oversizes: .003 - 451516 / .015 - 451517 / .030 - 451518

(6)For Spiral ID - 401189 (.502 OD)

(7)192 Deg - 851172 / 205 Deg - 851316

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