

JOHN DEERE

ENGINE: 303 Diesel (Late)



BORE: 3.8583"	6 Cyl	Diesel	NOTES: Block # T32345, R53260, R55035, R72970, O-R Grooves In Blk, 7.720" OAL Liners
APPLICATION:	Combines: 55 After 83000 After ESN 158975; 95 After 35000, 95H After 37500 After ESN 158975; Cotton Pickers: 699 After ESN 158975; Graders: JD570 After ESN 158975; Log Skidders: JD540 103159-119500; Power Units: HA303D, HB303D, NA303D After 158975; Tractors: 3120(E) After ESN 74999; Wheel Loaders: JD544 102642-121499; JD544(C) XXXXX-85199;		

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	954228	In-Frame Kit				I
	1	955228	Out-of-Frame Kit		O		
	1	956228	Major Kit	M			
	6	151623	Sleeve & Piston Assembly	M	O		I
	6	151622	Piston Assembly				
	6	151437	Liner Assembly (1)				
	6	151173	Liner O-Ring Package				
	6	151177	Block Repair Sleeve, Lower Liner Pilot Bore (Grooves In Blk)				
	6	151168	Piston Ring Set (2-3/32 1-5MM)				
	6	251111	STD Rod Bearing	M	O		I
	6	251112	.010 Rod Bearing				
	6	251113	.020 Rod Bearing				
	6	251114	.030 Rod Bearing				
	1	251271	STD Main Bearing Set	M	O		I
	1	251272	.010 Main Bearing Set				
	1	251273	.020 Main Bearing Set				
	1	251274	.030 Main Bearing Set				
	1	351668	Head Gasket Set				I
	1	351331	Head Gasket				
	1	351332	Valve Cover Gasket (Cork) (2)				
	1	351156	Valve Cover Gasket (SEMR) (2)				
	12	351161	Valve Seal (O-Ring)				
	6	351657	Exhaust Manifold Gasket				
	1	351669	Full Gasket Set w/Lip Seals	M	O		
	1	351671	Overhaul Gasket Set wo/Seals				
	1	351176	Crankcase Gasket Set wo/Seals				
	1	351267	Lower Gasket Set w/Lip Seals				
	1	351672	Block Gasket Set				
	1	351661	Timing Cover Gasket				
	1	351155	Pan Gasket				I
	1	351667	Pan Gasket Set (1-Gasket, 2-O-Rings, 1-D-Ring)				
	1	351128	Front Crank Seal	M	O		
	1	351154	Front Crank Spacer Assembly				
	1	351228	Front Crank Seal Kit (Includes Repair Sleeve)				
	1	351129	Rear Crank Seal Kit	M	O		
	6	251421	Pin Bushing (Boreable)	M			
	6	251422	Pin Bushing (Honeable)				
	12	751168	Rod Bolt: Rods Marked T20007 (2.125" Length)	M	O		I
	12	751128	Rod Bolt: Rods Marked R81410 (2.375" Length)				
	1	751334	Head Bolt Kit, w/Block # T32345 (3-4.75" 23-4.00")				
	1	751335	Head Bolt Kit, Except Block # T32345 (3-5.00" 23-4.25")				

(1)Liner Shims: .002 - 151174 / .004 - 151175

(2)Special Valve Cover Screw - 751256

JD-303-F

5/1/2006

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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	959526	Camshaft Kit					C
	1	959318	Basic Valve Kit				B	
	1	959118	Valve Train Kit				V	
	1	551559	Camshaft "Use w/Screw-In Tach Drive (3)"					C
	1	551112	Cam Thrust Plate					
	12	551113	Tappet					C
	6	451221	STD Exhaust Valve (4)		V		B	
	6	451222	STD Intake Valve (5)		V		B	
	12	401149	Ex/In Service Repair Valve Guide (.564 OD / 2.750" OAL) (6)					
	12	451115	Valve Spring		V		B	
	12	451187	Rotator "Will Replace 451411 Spring Retainer"		V			
	12	451198	Valve Wear Cap					
	24	451164	Keeper (Half)		V		B	
	6	451519	Exhaust Seat, OEM Seat (1.412 x 1.638 x .218)					
	6	401186	Exhaust Seat, STD Cutter (1.375 x 1.687 x .219)					
	6	401168	Intake Seat, STD Cutter (1.625 x 1.875 x .219)					
	12	451124	Rocker Arm					
	1	451243	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)					
	12	551342	Push Rod					
	1	651128	New Oil Pump "May Need 651132 Tube & 2 Bolt 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	651144	Oil Pump Inlet Screen: Exc JD540 (Late 2 Bolt Mtg Flange)					
	1	651142	Oil Pressure Regulator Valve Kit					
	1	751114	Crankshaft					
	6	751328	Connecting Rod					
	1	851188	Fuel Pump: Except JD544					
	1	851194	Thermostat (195 Degree) (7)					
	1	851323	Water Pump: JD570 Grader					
	1	851322	Water Pump Kit: HA303D, HB303D					
	1	851196	Water Pump Kit: JD540, JD544, JD570, NA303D					
	1	851324	Water Pump Kit: 3120 Tractor					

(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)180 Degree - 851258

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