

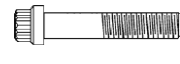
PERKINS



ENGINE: 1004E-4TW
T4.40CC

BORE: 3.938"	4 Cyl	Diesel	Notes: Intercooled, Graded Fastram Pistons, Liners w/Fire Dam, Notched Rods
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APPLICATION: Most AD Build Lists With Fastram Pistons
Excavators: Volvo EC150 (AD80819);
Industrial Engines: 1004E-4TW (AD50547, AD80868, AD80879, AD80914)

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	974468	In-Frame Kit					I
	1	975468	Out-of-Frame Kit				O	
	1	976468	Major-Frame Kit			M		
	1	977468	Premium Kit (979152 Dual Spring Valve Train Kit Included)		P			
	4	171519	Sleeve & Piston Asb (Grade J-L / 2.7640" Compression Dist)		P	M	O	I
	4	171521	Piston Assembly (Grade J-L / 2.7640" Compression Dist)					
	4	171522	Piston Assembly (Grade F-H / 2.7677" Compression Dist)					
	4	171367	Cylinder Liner (Flange/Finished/Fire Dam/4.1035" OD) (1)					
	4	171366	Cylinder Liner (Flange/Semi-Finished/FD/4.1055" OD) (2)					
	4	171468	005 Liner Shim					
	4	171281	Ring Set (1-3.5K 1-2.5 1-4.0)					
	4	271261	STD Rod Bearing (Locating Tangs For Notched Rods)		P	M	O	I
	4	271262	.010 Rod Bearing (Locating Tangs For Notched Rods)					
	4	271263	.020 Rod Bearing (Locating Tangs For Notched Rods)					
	4	271264	.030 Rod Bearing (Locating Tangs For Notched Rods)					
	1	271161	STD Main Set, wo/Thrust Washers		P	M	O	I
	1	271162	.010 Main Set, wo/Thrust Washers					
	1	271163	.020 Main Set, wo/Thrust Washers					
	1	271164	.030 Main Set, wo/Thrust Washers "Additional Sizes (4)"					
	1	271119	STD Thrust Washer Set (Offset Lug)		P	M	O	I
	1	271125	.007 Thrust Washer Set (Offset Lug)					
	1	271126	.010 Thrust Washer Set (Offset Lug)					
	1	371325	Head Gasket Set "Head Gasket - 371155"		P	M	O	I
	1	371218	Valve Cover Gasket (Aluminum Cover)					
	1	371221	Valve Cover Gasket (Composite Cover)					
	8	371143	Valve Seal					
	1	371394	Lower Gasket Set wo/Seals		P	M	O	
	1	371393	Timing Cover Gasket					
	1	371167	Pan Gasket Set (Cast Pan / Incls 6 Flange Gkt)					
	1	371282	Pan Gasket (Steel Pan)					I
	1	371146	Front Crank Seal (Viton Lip Type) (5)		P	M	O	
	1	371145	Rear Crank Seal, Thru U176356H (Viton Lip Type) (6)		P	M	O	
	1	371297	Rear Crank Seal & Housing, After U176356H (7) (8)					
	4	271244	Pin Bush, Butt Split Rod (Straight / 1.563" Pin / 1.660" OD)		P	M		
	4	271198	Pin Bush, Fractured Rod (Straight/1.563" Pin/1.698" OD) (10)					
	4	271289	Pin Bush, Fractured Rod (Taper/1.563" Pin/1.698" OD) (11)					
	1	271127	Cam Bearing (Finished ID)		P	M		
	8	771368	Rod Capscrew (Doweled Flat Butt Split/1/2 x 2.766 Hex Hd)		P	M		
	8	771323	Rod Capscrew (Fractured Split / 7/16 x 2.580 12 Pt Head)					
	1	771319	Head Bolt Kit (22 Bolts)					

(1).010 OS Finished Liner - 171368 (2).020 OS Semi-Finished Liner - 171511 (4).040 - 271165 / .050 - 271166 / .060 - 271167
(5)Wear Sleeve-301115 (6)Lip Seal Hsg Gkt-371187 / Wear Sleeve-301143 (7)Wear Sleeve-371366 (8)Not Included In Engine Kits
(10)Used When Taper Press Tooling Is Not Available (Machine Taper After Boring To Size) (11)Used With Proper Taper Press Tooling

PK-243-M

10/28/2009

CLICK THE ITEM # TO VIEW OR PURCHASE PART

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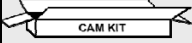
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APPLICATION: Most AD Build Lists With Fastram Pistons
Excavators: Volvo EC150 (AD80819);
Industrial Engines: 1004E-4TW (AD50547, AD80868, AD80879, AD80914)

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979523	Camshaft Kit					C
	1	979157	Valve Train Kit (High Speed / 45° Intake / Dual Springs)					
	1	979152	Valve Train Kit (High Speed / 30° Intake / Dual Springs)					
	1	571129	Camshaft "Uses 771363 (M12 x 45) Capscrew"					C
	1	271249	Thrust Washer					
	8	571123	Tappet					C
	4	471129	Exhaust Valve (45° / 37.5MM Hd Dia)		V		V	
	4	471116	Intake Valve (45° / 45.0MM Hd Dia)				V	
	4	471126	Intake Valve (30° / 45.0MM Hd Dia)		V			
	4	471132	Exhaust Guide		V		V	
	4	471131	Intake Guide		V		V	
	8	471144	Outer Valve Spring (8 Coils / 1.8" Free Length)		V		V	
	8	471143	Inner Valve Spring (9 Coils / 1.7" Free Length)		V		V	
	8	471229	Spring Seat (Stepped/.640" ID)				V	
	16	471146	Keeper (Half)		V		V	
	4	471288	Ex Seal, Heads w/45° Intake (1.290 x 1.681 x .374 Stepped)					
	4	471315	Ex Seal, Heads w/30° Intake					
	4	471289	Intake Seat (45° / 1.584x2.019x.285)					
	4	471292	Intake Seat (30°)					
	4	471224	LH Rocker Arm (Adj Screw & Lock Nut Not Included) (12)					
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (12)					
	1	471227	Rocker Arm Shaft (13) "Includes 471176 Plugs"					
	1	571171	Cam Gear (Steel / 56 Teeth)					
	1	571131	Crank Gear (28 Teeth / 1.632" Wide)					
	1	571163	Idler Gear (Steel / 63 Teeth) (14)					
	8	571117	Push Rod					
	1	671115	Oil Pump					
	1	671176	Oil Pump Idler Gear "Includes Idler Gear Bush - 571124"					
	1	671183	Relief Valve Assembly: AD80819, AD80879, AD80914					
	1	671182	Relief Valve Assembly: AD50547, AD80868					
	4	671157	Piston Cooling Jet					
	4	671158	Piston Cooling Check Valve					
	1	671181	Oil Cooler: AD80879, AD80914					
	1	671149	Oil Cooler: AD50547, AD80868					
	1	671175	Oil Cooler: AD80819					
	1	771181	Crank Kit (Spline / Lip) "Front Plate & Screws - 771361"					
	4	771352	Connecting Rod (1.563" Pin)					
	1	771379	Cylinder Head Assembly, Intercooled (Deep Valves / 45° Int)					
	1	771366	Cylinder Head Assembly, Intercooled (Deep Valves / 30° Int)					
	1	771359	Expansion Plug Kit (20 Head & Block Plugs)					
	1	871138	Thermostat (2.125" / Bypass)					
	1	871274	Bypass Hose Kit					
	1	871163	Water Pump					
	1	871255	Fuel Pump					

(12)Adjusting Screw-471226 / Lock Nut - 571139

(13)Rocker Arm Shaft Snap Ring - 471228

(14)Includes 2 Bushings - 571144

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