



Allis Chalmers

Parts Manual

HD-9

Diesel Crawler

Parts Manual

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AC-P-HD9

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Parts
Catalog

for

HD9

TRACTOR

MANUAL PREVIEW

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Milwaukee, Wisconsin, U.S.A.

Litho in U.S.A.

FORM 626016 (11-59)

TRACTOR MODELS

Several distinct models of the HD9 tractor are available and this Repair Parts Catalog has been prepared to show the parts for each. All parts listed herein, which have no specific usage indicated, are applicable to all models. Those parts which are used only on specific models are so indicated.

The currently available models and their identifying symbols are indicated below. This symbol is stamped in front of the tractor serial number on each model.

DESCRIPTION	MODEL SYMBOL
Short Track (38 links) Oscillating Truck Frames, 74" tread*	HD9B
Long Track (41 links) Rigid Truck Frames, 74" tread*	HD9F
Long Track (41 links) Rigid Truck Frames, 74" tread* equipped with TRACTOMOTIVE Front Shovel**	HD9G

*Measurement from center to center of tracks.

**Order all parts for TRACTOMOTIVE Shovel and its Hydraulic System from Tractomotive Corporation, Deerfield, Illinois or from nearest authorized Dealer.

SERIAL NUMBERS

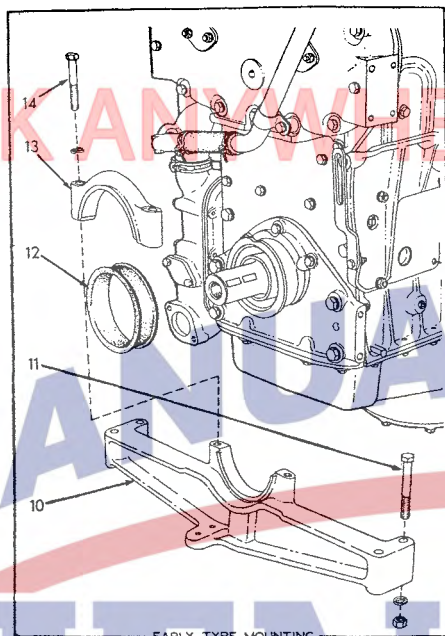
The tractor serial number is stamped on the rear face of the steering clutch housing at the upper right hand corner, and on a small plate attached to the cowl, facing the operator.

The engine serial number is stamped on the right hand side of the cylinder block near the top front corner.

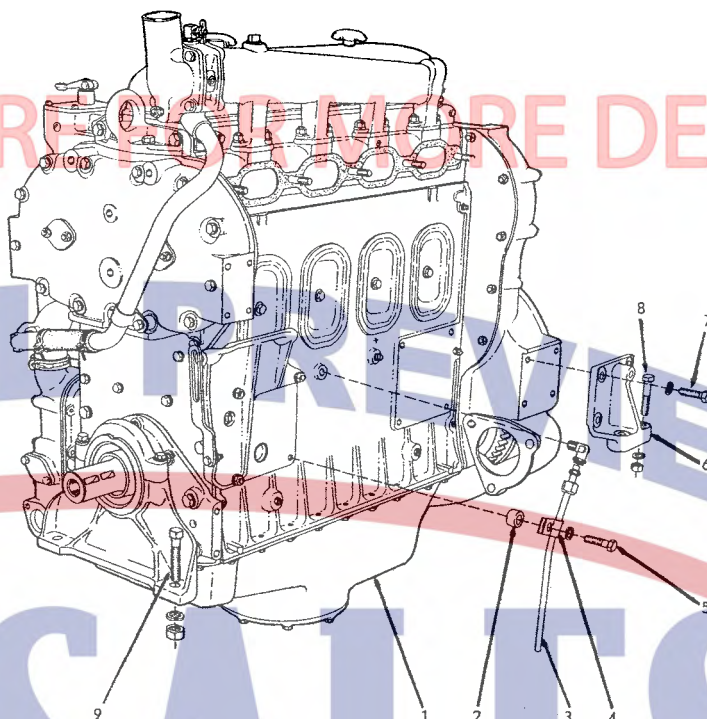


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EARLY TYPE MOUNTING



ENGINE AND MOUNTING

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	059266	1	ENGINE ASSEMBLY (with 55mm Injectors)(Not used on Model HD9G tractors after #2697)	
	079987	1	ENGINE ASSEMBLY (with 70mm Injectors)(Used on Model HD9G tractors #2698 and up)	

NOTE: Each engine listed above includes blower, governor, fuel fuel pump and water pump but does not include air cleaner, fan, fuel filters, oil filter, generator, starting motor or muffler.

2	073884	1	BLOCK, spacing, drain tube clip
3	069031	1	TUBE, air box drain
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
	918325	1	NUT, Sealastic fitting, 3/8" tube
	915367	1	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)
4	043030	1	CLIP, air box drain tube
5	040011	1	CAPSCREW, 7/16"NC x 1-1/2"
	904207	1	LOCKWASHER, 7/16"
6	069483	2	BRACKET, engine supporting, rear
7	035190	8	CAPSCREW, 1/2"NC x 1-1/2"
8	035892	4	CAPSCREW, 1/2"NF x 2-1/2"
	911043	4	NUT, 1/2"NF
	904208	12	LOCKWASHER, 1/2"
9	013467	2	CAPSCREW, front mounting (5/8"NF x 3")(Tractors #1518 and up)
	904209	2	LOCKWASHER, 5/8"
	911044	2	NUT, 5/8"NF

NOTE: Items 10 thru 14 comprise the EARLY TYPE FRONT MOUNTING as used on tractors prior to serial No. 1518.

10	065341	1	SUPPORT ASSEMBLY, engine, front (Includes items 13 and 14)
11	043576	4	CAPSCREW, 1/2"NF x 3-3/4"
	911043	4	NUT, 1/2"NF
	904208	4	LOCKWASHER, 1/2"
12	5166864	1	RING, cushion (rubber)
13	-----	1	CAP, front engine support (Not serviced. Order item 10)
14	053323	2	CAPSCREW, 7/16"NC x 2-3/4"
	904207	2	LOCKWASHER, 7/16"

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CYLINDER BLOCK

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CYLINDER BLOCK

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5193108	1	BLOCK ASSEMBLY, cylinder (Includes items 2 thru 14, and all PLUGS indented below)(When required for engines prior to #4A-19529 also order 1 GASKET SET 5193117 and 3 BOLTS 5183584)	
	910230	9	PLUG, pipe, slotted-hd., 1/8"NPT (13 used on engines prior to #4A-19529)	
	911081	6	PLUG, pipe, slotted-hd., 1/4"NPT	
	904260	1	PLUG, pipe, ctsk-hd., 3/8"NPT	
	904223	4	PLUG, pipe, ctsk-hd., 1/2"NPT	
	904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT	
	901666	6	PLUG, pipe, ctsk-hd., 1"NPT	
2	5154082	1	PLUG, plain, cylinder block (1-1/4" diam., 1/4"NPT hole)	
3	5154319	3	PLUG, plain, cylinder block (1/4" diam., 5/16" long)	
4	5150014	1	PLUG, cup, cylinder block (1-1/4" diam.)	
5	5150130	2	PLUG, cup, cylinder block (5/16" diam.)	
6	5178998	4	PLUG, cylinder block	
7	5178997	4	GASKET, cylinder block plug	
8	5184484	4	INSERT, cylinder liner supporting (Started with engine #4A-19529)	
9	5158674	5	CAP, main bearing	
10	5152149	10	BOLT (5/8"NC x 4-3/4")	
	904209	10	LOCKWASHER, 5/8"	
11	-----	2	STUD, oil pump attaching (Not used on HD9. Remove and discard)	
12	-----	10	STUD, cylinder head (See CYLINDER HEAD)	
13	-----	4	PIN, dowel (See FLYWHEEL HOUSING and CYLINDER BLOCK FRONT COVERS)	
14	-----	4	PIN, dowel, rear main bearing thrust washer (See CRANKSHAFT AND FLYWHEEL)	
15	5153117	4	COVER, handhole (1 less used on tractors equipped with Air Heater System)	
	5153139	3	BOLT, front covers (3/8"NC x 2-1/4")(1 more used on tractors equipped with Heavy-Duty Oil Filter)	
16	065044	1	STUD, rear cover (3/8"NC x 3/8"NF x 3-7/8")(Also attaches oil filter bracket. Not used with Heavy-Duty Filter)	
	911041	1	NUT, 3/8"NF (rear cover stud)	
	911115	4	WASHER, plain, SAE std., 3/8"	
17	040400	4	GASKET (copper).....	058037 074689
18	5150020	4	GASKET, handhole cover	058037 074689
19	5150023	1	COVER, water hole	
20	045312	2	CAPSCREW, 5/16"NC x 3/4"	
	904205	2	LOCKWASHER, 5/16"	
21	5150024	1	GASKET, water hole cover	058037 074689
22	5174694	1	DIPSTICK, oil level	
23	5151893	1	TUBE ASSEMBLY, oil level dipstick (Includes NUT)	
24	5151430	1	ADAPTER, oil level dipstick	
25	041919	1	CLIP, oil level dipstick tube	
26	065917	1	CAPSCREW, 5/16"NF x 1/2"	
	904205	1	LOCKWASHER, 5/16"	
27	-----	4	LINER, cylinder (See PISTON AND CONNECTING ROD)	

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PISTON, CONNECTING ROD AND CYLINDER LINER

PISTON, CONNECTING ROD AND CYLINDER LINER

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5189054	4	PISTON ASSEMBLY (Includes items 2 and 3)	5194496
2	-----	8	BUSHING, piston (Not serviced separately)	
3	5153592	8	RETAINER, piston pin (Standard)	Engines prior to #4A-44397
	5192497	8	RETAINER, piston pin (.010" oversize)	
	5188405	8	RETAINER, piston pin (expansion drive-in type)(Effective with engine #4A-44397)	
4	5153562	8	RING, snap, piston pin retainer (Engines prior to #4A-44397)	
5	5188406	4	PIN, piston	5194496
6	5154332	4	ROD ASSEMBLY, connecting (Includes items 7 thru 11)	
7	5157274	8	BUSHING, connecting rod	
8	5150140	4	NOZZLE, spray, connecting rod	
9	5154360	4	ORIFICE, connecting rod	
10	5150094	8	BOLT, connecting rod	
11	5150095	8	NUT	
	900801	8	PIN, cotter, 3/32" x 3/4"	
12	5179632	8	SHELL, connecting rod bearing (Standard size)	
	5192881	8	SHELL, connecting rod bearing (.002" undersize)	
	5192885	8	SHELL, connecting rod bearing (.010" undersize)	
	5192889	8	SHELL, connecting rod bearing (.020" undersize)	
	5192893	8	SHELL, connecting rod bearing (.030" undersize)	
13	5185325	16	RING, compression	5193477
14	5179836	8	RING, oil control (3-piece type)	5193477
15	5188868	4	LINER, cylinder	5194496
16	2190595	-	SHIM, cylinder liner (.0015" thick. Use as req'd)	
	5192226	-	SHIM, cylinder liner (.003" thick. Use as req'd)	

NOTE: In view of the removable-sleeve construction of these engines, oversize pistons or rings are not supplied. When appreciable wear occurs, new standard size parts should be installed.

Oversize piston pins are not available. New standard size pins and bushings should be installed when appreciable wear occurs.

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