Fiat Allis 45 Motor Grader Parts Catalog

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45 Motor Grader

PARTS CATALOG

FORM 70642041 Reprint 4-89

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AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home or on the highway, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason MOST ACCIDENTS CAN BE PREVENTED by recognizing the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment there are many conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against an accident. The complete observance of one simple rule would prevent many thousand serious injuries each year. That rule is:

Never attempt to clean, oil or adjust a machine while it is in motion.

NATIONAL SAFETY COUNCIL

·WARNING-

On machines having hydraulically, mechanically, and/or cable controlled equipment (such as shovels, loaders, dozers, scrapers, etc.) be certain the equipment is lowered to the ground before servicing, adjusting and/or repairing. If it is necessary to have the hydraulically, mechanically, and/or cable controlled equipment partially or fully raised to gain access to certain items, be sure the equipment is suitably supported by means other than the hydraulic lift cylinders, cable and/or mechanical devices used for controlling the equipment.

Fiatallis is not responsible for any liability arising from any damage resulting from defects caused by parts and/or components not approved by Fiatallis for use in maintaining and/or repairing products manufactured or merchandized by Fiatallis.

In any case, no warranty of any kind is made or shall be imposed with respect to products manufactured or merchandized by Fiatallis when failures are casued by the use of parts and/or components not approved by Fiatallis.

MODEL IDENTIFICATION

The symbol listed below is stamped in front of the model serial number on each unit.

MODEL SYMBOLENGINE MODELDESCRIPTION4510,000Diesel Motor Grader (naturally aspirated)

RECORD YOUR SERIAL NUMBERS BELOW

GRADER SERIAL NO.

ENGINE SERIAL NO.

ALLIS-CHALMERS WARRANTY

"ALLIS-CHALMERS MANUFACTURING COMPANY warrants that it will repair F.O.B. its factory, or furnish without charge F.O.B. its factory, a similar part to replace any material in its machinery which within six months, or 1500 hours of use, whichever occurs first, (except six months on utility wheel tractors sold for non-farm use) after the date of delivery by the Dealer, is proven to the satisfaction of the Company to have been defective at the time it was delivered, provided that all parts claimed defective shall be returned properly identified to the Company's factory, charges prepaid.

"This warranty is the only warranty, express, implied or statutory, upon which said machinery is purchased.—No other warranty has been made or exists either expressly, or by implication, all statutory and implied warranties being hereby expressly waived and excluded from this transaction, and the Company's liability in connection with this transaction is expressly limited to the repair or replacement of defective parts, all other damages, statutory or otherwise, being hereby expressly waived.

"This warranty applies only to new and unused machinery, which after shipment from the factory of the Company, has not been altered, changed, repaired or treated in any manner whatsoever. No warranty of any kind, statutory, implied, or otherwise, shall apply to trade accessories, attachments, tools, or implements not manufactured by the Company, though sold or operated with the Company's machinery, or to second-hand machinery, or to new and unused machinery, which, after shipment from the factory of the Company, has been altered, changed, repaired, or treated in any manner whatsoever.

"No representative of the Company has authority to change this warranty or this contract in any manner whatsoever, and no attempt to repair or promise to repair or improve the machinery covered by this contract by any representative of the Company shall waive any consideration of the contract or change or extend this warranty in any manner whatsoever.

"Allied or Companion equipment not manufactured by the Company is covered only by the standard warranty of the manufacturer of such allied or companion equipment though sold or operated with the Company's machinery."

IMPORTANT

The terms "right" and "left" used throughout this parts list are determined by facing the direction of forward travel.

The engine is mounted unconventionally with the flywheel toward the front of the machine, but all engine parts are designated in respect to the engine as it would be installed in a conventional machine with the flywheel to the rear.

Attaching parts such as bolts, nuts, rivets, screws, washers, etc. are indented immediately following the parts which they attach.

INSTRUCTIONS FOR ORDERING PARTS

ALWAYS GIVE THE MODEL AND ENGINE SERIAL NUMBER. (Location shown below)

To obtain parts promptly, give part name and part number.

Give post office address, town, county and state where parts are to be shipped. Also specify whether material is to be shipped by freight, express or parcel post.

Order parts from the dealer covering the local territory.

Confirm all telephone or telegraph orders in writing.

Parts for standard motor accessories such as generators and starting motors should be ordered from authorized Service Stations maintained by manufacturers of these units throughout the country.

No credit will be allowed on parts unless they are returned to the dealer from whom they were purchased; from there they will be returned, at the customer's expense, to the factory for inspection.

Unless claims for shortages or errors are made immediately upon receipt of goods, they will not be considered.

When broken goods are received, a full description of the damage should be made by the carrier agent on the freight bill. If this description is insisted upon, full damage can always be collected from the transportation company.

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them; therefore, claims (if any) should be filed with the transportation company and not with Allis-Chalmers Manufacturing Company.

The right is reserved to change the construction or material of any parts where it seems desirable to do so, without incurring the obligation of installing such changes on units already delivered.

SERIAL NUMBER LOCATIONS

MODEL SERIAL NO: On plate attached to the right side of the frame near the operator's platform.

ENGINE SERIAL NO: On plate attached to the left hand side of the cylinder block at the rear end.

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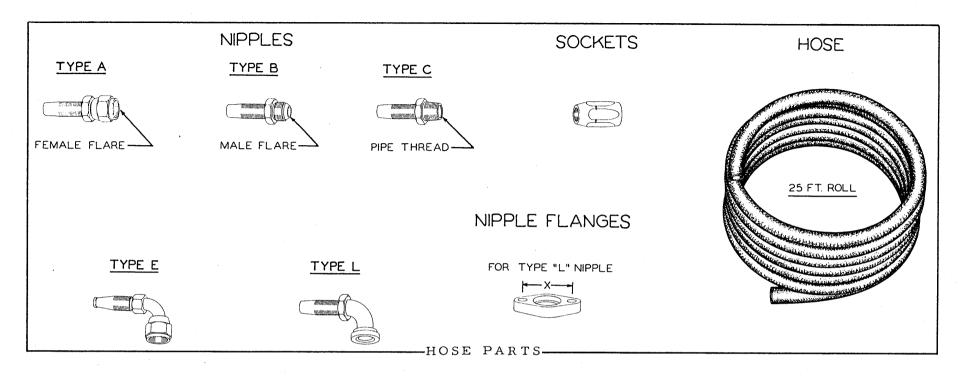
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PACKAGED PARTS

PACKAGE NUMBER		DESCRIP	TION	
639956		LINKAGE	KIT, gear	shift lock
		1	074959	SEAL, clutch fork shaft
		1	074975	BEARING, clutch fork shaft
		1	078810	PIN, joint adjusting yoke
		1	628261	LINK, locking plunger (145 grader)
		1	628271	STUD, plunger rod lever
		1	628463	JOINT, ball and socket
		1	628564	LEVER, plunger rod operating
		1	628727	SHAFT, clutch fork
		1	628734	BRACKET, operating lever
		1	628748	YOKE, joint adjusting
		1	632222	LINK, locking plunger (45 grader)
		2	900801	PIN, cotter, $3/32'' \ge 3/4''$
		3	903633	CAPSCREW, $3/8$ "NC x 1-3/4"
		5	904206	LOCKWASHER, 3/8"
		1	910255	WASHER, plain, SAE std., 3/4"
		1	910302	PIN, cotter, 5/32" x 1-1/4"
		3	911041	NUT, 3/8"NF
		1	911115	WASHER, plain, SAE std., 3/8"
		1		INSTRUCTION SHEET
4335830		GASKET	KIT intern	nediate, cylinder block (Graders prior to #1780)
2000000		1	035249	GASKET, oil drain plug
		2	4113897	GASKET, oil regulating valve nut
		5	4253106	O-RING, oil filter lines
		1	4254082	O-RING, camshaft hole cover
		1	4254624	O-RING, camshaft hole plug
		Ī	4335056	GASKET, water pump volute
		1	4336897	O-RING, flywheel housing to crankcase
		1	4346169	GASKET, oil pipe
		1	4346744	GASKET, water pump
		1	4347031	GASKET, water by-pass pipe
		1	4347120	GASKET, timing hole cover
		1	4347880	GASKET, timing gear housing
		1	4348126	GASKET, timing gear cover
		1	4348184	GASKET, oil cooler water outlet
		1	4348185	GASKET, oil cooler water inlet
		1	4348215	GASKET, oil pipe
		1	4348218	GASKET, oil pipe
		1	4371289	GASKET, oil pan cover
4225021		C A CIZER -	17 . 1 ·	
4335831				er head (Graders prior to #1780)
		6	4251987	O-RING, valve lifter cover nut
		1	4300145	GASKET, engine water outlet elbow
		2	4335279	GASKET, cylinder head cover
		1	4336430	GASKET, front cylinder head
		1	4336431	GASKET, rear cylinder head
	· _	2 6	4337764	GASKET, valve lifter cover
	•		4338511	GASKET, exhaust manifold
		6 1	4346138	GASKET, intake manifold
			4346330	GASKET, water manifold connecting
		1	4347824	GASKET, supercharger drain flange
		2	4347940	GASKET, thermostat housing
		2 6	4348133	GASKET, breather tube
			4348278	GASKET, water manifold
		2	4349031	GASKET, supercharger
		1 6	4349384	GASKET, intake manifold cover
		U	4511204	GASKET, injection nozzle

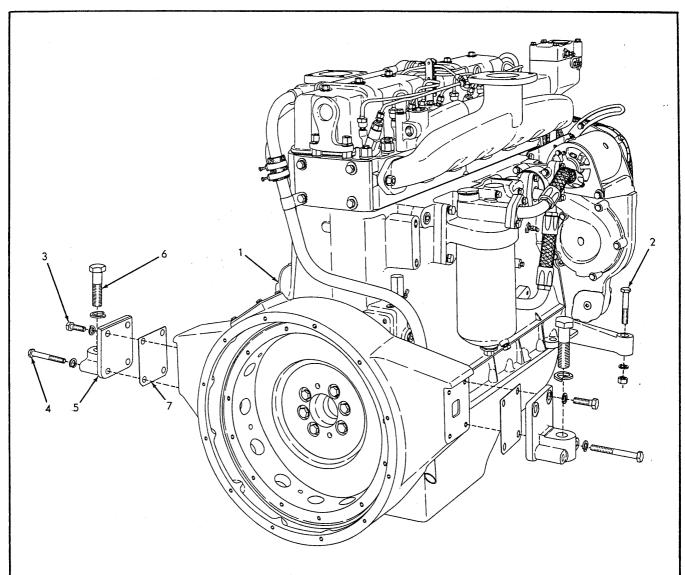
PACKAGED PARTS

PACKAGE NUMBER	DESCRIPTION	
4336577	GASKET KIT, intern	nediate, cylinder block (Graders #1780 and up)
	2 035249	GASKET, oil drain plug
	2 4113897	GASKET, oil regulating valve nut
	1 4253106	O-RING, oil filter
	1 4253818	O-RING (Discard. Not for grader)
	1 4253929	O-RING, fan drive (Discard. Not for grader)
	1 4254624	O-RING, camshaft hole plug
	1 4335056 3 4335577	GASKET, water pump volute GASKET, oil filter hose
	1 4335578	GASKET, oil filter hose
	1 4335712	GASKET, cover plate
	1 4336345	GASKET, cover plate
	1 4336897	O-RING, flywheel housing to crankcase
	1 4346169	GASKET, oil pipe
	2 4346441	GASKET, oil pipe (Discard. Not for grader)
	$\begin{array}{cccc} 1 & 4346456 \\ 1 & 4346744 \end{array}$	GASKET, water inlet elbow
	1 4346744 1 4347031	GASKET, water pump GASKET, water by-pass flange
	1 4347120	GASKET, oil filler hole cover
	1 4348136	GASKET, timing gear housing
	1 4348126	GASKET, timing gear cover
	1 4348184	GASKET, oil cooler water outlet
	1 4348185	GASKET, oil cooler water inlet
	2 4348215	GASKET, oil pipe
	1 4348218 1 4349011	GASKET, oil pipe
	l 4349011 l 4362458	GASKET, cover plate GASKET, oil pump cover (Discard. Not for grader)
	1 4371289	GASKET, oil pan cover
	2 4373069	GASKET, oil pan cover (Discard. Not for grader)
4337974	DISTON AND SI FEI	/E KIT (Graders prior to #1780)
4331714	2 4304699	RETAINER, piston pin
	1 4336190	RING, oil control
	1 4336321	RING, oil control
	1 4337971 ⁻	SLEEVE, cylinder
	2 4337972	O-RING, cylinder sleeve
	2 4347235	RING, compression
	l 4347281 l 4347458	PIN, piston RING, compression
	l 4347676	PISTON
4337975	PISTON AND SLEEV	VE KIT (Graders #1780 and up)
2001/10	2 4254814	RETAINER, piston pin
	1 4336512	PISTON
	1 4336559	RING, oil control
	1 4337395	PIN, piston
	1 4337971	SLEEVE, cylinder
	2 4337972 2 4347235	O-RING, cylinder sleeve RING, compression
	1 4347458	RING, compression
		· •
4338735	GASKET KIT, cylind 4 4252796	der head (Graders #1780 and up) O-RING
	4 4254294	O-RING, water by-pass tube
	2 4336148	GASKET, rocker cover
	4 4336182	GASKET, water manifold
	1 4336263	GASKET, thermostat housing
	1 4336266 1 4336430	GASKET, engine water outlet elbow
	1 4336430 1 4336431	GASKET, front cylinder head GASKET, rear cylinder head
	2 4337764	GASKET, valve lifter cover
	6 4338511	GASKET, exhaust manifold
	6 4346138	GASKET, intake manifold
	2 4348133	GASKET, breather tube
	6 4378031	GASKET, injection nozzle
		5



HOSE ASSEMBLY NO.	BULK HOSE (25' roll)	HOSE	HOSE	HOSE LENGTH	NIPPLE (#1 end)			NIPPLE (#2 end)			SOCKET (both ends)	NIPPLE FI	LANGE
140.	(25 1011)	(inches)	Including SOCKET	NIPPLE only	Туре	Including SOCKET	NIPPLE only	Туре		Part No.	X Dim.		
098378	919155	22-7/16	920849	920302	A	920857	919079	в	919075				
099135	919155	13-1/4	920849	920302	Α	920836	919073	С	919075				
099136	919155	11-1/4	920849	920302	A	920836	919073	С	919075				
4335557	919196	7-7/8	920847	920301	A	920833	919200	С	919143				
4335566	920222	5-7/16		920173	L		920195	L-lg	919282	919251	311		
4335567	920222	9-7/16		920173	L		920141	L	919282	919274	2-1/4"		
									2	919251	3''		
4335897	919155	7-3/4	920849	920302	A	920836	919073	С	919075				
4335898	919155	18-3/4	920849	920302	A	920864	919082	E	919075				
4335935	919155	15-1/2	920849	920302	A	920864	919082	E	919075				
										· · · · · · · · · · · · · · · · · · ·			

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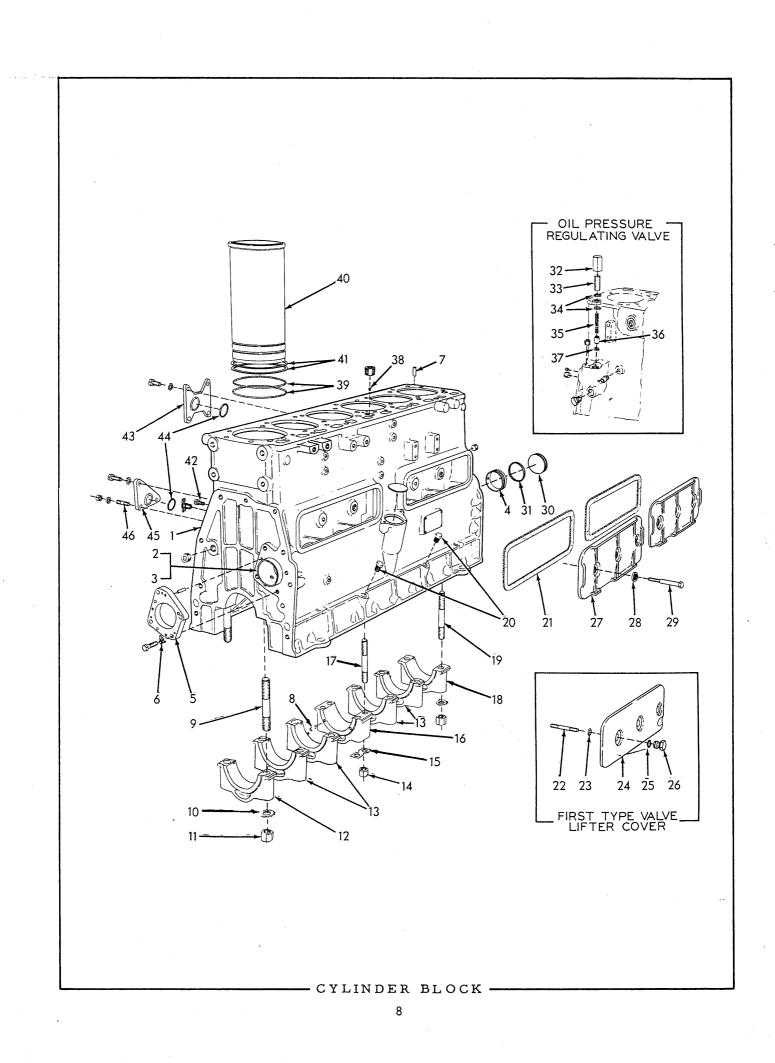


-ENGINE AND MOUNTING-

* Used prior to grader serial No. 1780** Effective with grader serial No. 1780

		QTY.		
ITEM	PART NO.	* **	DESCRIPTION	

	(1217011	•		
	4347946	1.	- .,	ENGINE ASSEMBLY (Less Air Cleaner, Fan, Starter and Muffler,
,				but includes Generator, Oil and Fuel Filters and Supercharger)
I	122/510		,	
	4336519	-	1	ENGINE ASSEMBLY (Less Air Cleaner, Fan, Starter and Muffler,
	C			but includes Generator, Oil and Fuel Filters)
2	034440	2	2	CAPSCREW, $5/8''NF \ge 3-1/2''$
-	904209	2	2	LOCKWASHER, 5/8"
		2	2	
	911044			NUT, 5/8"NF
3	035190	4	4	CAPSCREW, $1/2$ "NC x $1-1/2$ "
4	045253	4	4	
-	904208	8	8	LOCKWASHER, 1/2"
	704208	0	0	LOCK WASHER, 1/2
5	085769	2	2	BRACKET, engine supporting, front
6	012762	2	2	CAPSCREW, $7/8$ "NF x $3-1/4$ "
, U			2	
	905 347	2	2	LOCKWASHER, 7/8"
-	000(15	~		
7	089617	2	2	SHIM, spacing (1/32" thick. Use as req'd)



CYLINDER BLOCK

* Used prior to grader serial No. 1780** Effective with grader serial No. 1780

TTEN	PART NO.	Q] *	ΓΥ. **	DESCRIPTION
ITEM	PARI NO.	T	ተጥ	DESCRIPTION
1		1	-	 BLOCK ASSEMBLY (Used prior to engine #45-2025. Order BLOCK ASSEMBLY 4336591. If for engines #90846 thru #45-1209 also order 1 LINE ASSY. 4336524, 1 O-RING 4253106, 1 PLATE 4034292, 1 GASKET 4347655, 2 CAP- SCREWS 903630, 2 CAPSCREWS 910211, 4 LOCKWASHERS 904206, 1 STUD 4335371, 1 NUT 910915 and 1 LOCKWASHER 904208. If for engines prior to #90846 also add: 1 TUBE ASSY. 4335043, 1 TUBE ASSY. 4349309, 2 SHAFT ASSYS. 4349294, 2 BRACKETS 4349291, 2 ELBOWS 4335381, 2 ELBOWS 911017 and 2 ELBOWS 913039)
	4336591	1	-	BLOCK ASSEMBLY (Includes items 2 thru 20, 37, 38, 42 thru 46 and hardware indented below) (Effective with engine #45-2025)
	4338151	-	1	BLOCK ASSEMBLY (Includes items 2 thru 4, 7 thru 20, 37, 38, 42 thru 46 and hardware indented below)
	910015	1	-	PLUG, expansion, 2-1/8" diam. (Used prior to engine #45-2025)
	910017	1	1	PLUG, expansion, 2-3/8" diam. (Effective with engine #45-2025)
	919134	1	3	PLUG, pipe, hex-hd., 1/8"NPT
	920333	2	2	PLUG, pipe, hex-hd., 3/8"NPT
	904223	2	-	PLUG, pipe, ctsk-hd., 1/2"NPT
	917970	-	2	PLUG, pipe, hex-socket, 1/2"NPT
		1		
	920416	1	1	PLUG, pipe, hex-hd., 1/2"NPT
	904224	- 1		PLUG, pipe, 3/4"NPT
	918851	-	1	PLUG, pipe, hex-socket, 3/4"NPT
	918888	1	1	PLUG, pipe, hex-socket, I''NPT
	912415	2	2	COCK, drain, 1/4"NPT(1 less used prior to engine #45-1210)
ſ	4347879	1	-	BEARING, camshaft, front (Standard size)
2	4336755	1	-	BEARING, camshaft, front (.010" undersize)
	4346100	-	1	BEARING, camshaft, front (Standard size)
C	4347416		1	
3 {	4346099	2	2	BEARING, camshaft, intermediate (Standard size)
	. 4347419	2	2	BEARING, camshaft, intermediate (.010" undersize)
4	4346108	1	1	BEARING, camshaft, rear (Standard size) BEARING, camshaft, rear (.010" undersize)
F			*	
5	4347878	1	-	ADAPTER, camshaft front bearing
	917540	2	-	DOWEL, $3/8'' \times 1 - 1/8''$
,	904541	4	-	CAPSCREW, $1/2$ "NC x 1-3/4"
6	4335175	4	-	LOCKWASHER
7	4336432	-	4	PIN, dowel, cylinder head (Effective with grader #1780)
8		4	4	PIN, dowel, crankshaft thrust flange (See CRANKSHAFT)
9.	4348829	2	2	STUD, front main bearing (3/4" diam., 5-1/2" long)

(Continued)

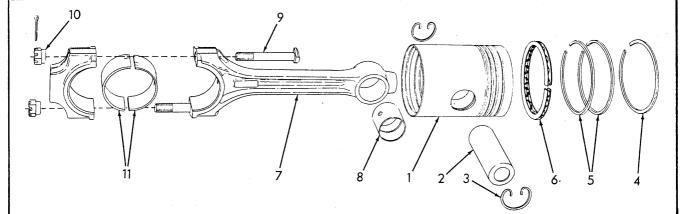
CYLINDER BLOCK (Continued)

		-		
ITEM	PART NO.	Q' *	TY. ** DESCRIPTION	
10	4346324	12	12 LOCKWASHER, main bearing stud nut	
11	4346191	12	12 NUT, main bearing stud (3/4"NF)	
12	4349630	1	$1 \triangle CAP$, front main bearing	
13	4349632	4	$4 \Delta CAP$, intermediate main bearing	
14	4346322	4	4 NUT, center main bearing stud (5/8"NF)	
ŀ5	4346323	2	2 PLATE, locking, center main bearing stud nut	
16	4349629	1	$1 \triangle CAP$, center main bearing	
17	4348831	4	4 STUD, center main bearing (5/8" diam.)	
18	4349631	1	$1 \triangle CAP$, rear main bearing	
19	4348830	10	10 STUD, rear and intermediate main bearings (3/4" diam., 5-7/8" 1	.ong)
20	4362338	2	2 PLUG, crankcase	
21	4337764	2	2 □GASKET, valve lifter cover	
			NOTE: Items 22 thru 26 comprise the FIRST TYPE VALVE LIFTER COVERS used prior to engine serial No. 45-1293	
22	4346653	6	- STUD, valve lifter cover	
23	4253520	6	- RING, snap, valve lifter cover nut	
24		2	- COVER, valve lifter, (Order items 27,28 and 29)	
25	4251987	6	- DO-RING, valve lifter cover nut	
26	4347126	6	- NUT, valve lifter cover	
			NOTE: Items 27 thru 29 comprise the SECOND TYPE VALVE LIFTER COVERS effective with engine serial No. 45-1293	
27	4335453	2	2 COVER, valve lifter	
28	4335456	6	6 WASHER, valve lifter cover bolt	
29	4335455	6	6 BOLT, valve lifter cover	
30	917724	1	- PLUG, expansion, 2-3/4" diam. (Used prior to engine #45-1397)	
50	4335534	1	<pre>l PLUG, camshaft hole (grooved for O-ring)(Effective with engine #45-1397)</pre>	
31	4254624	1	1 \Box O-RING, camshaft hole plug (Effective with engine #45-1397)	
32	4660357	1	l NUT, cap, oil pressure regulating valve	
33	4660356 910847	1 1	<pre>1 SCREW, oil pressure regulating valve 1 NUT, jam, 3/4"NF</pre>	
34	4113897	2	2 DGASKET, regulating valve nut	
			 △ Replacement bearing caps are semi-finished and must be line-bored after installing □ Also see PACKAGED PARTS (Continued) 10 	

		0.001	CYLINDER BLOCK (Continued)
ITEM	PART NO.	QTY. * **	
35	4660358	1 1	SPRING, oil pressure regulating valve
36	4500230	1 1	PISTON, oil pressure regulating valve
37	4347465	1 1	INSERT, oil pressure regulating valve seat
38	4347061	1 1	RESTRICTOR, oil passage (Additional 2 used on engines prior to #90846)
39	4346184	12 12	O-RING, cylinder sleeve (black)(Used prior to engine #45-2260)
39	4337972	12 12	\Box O-RING, cylinder sleeve (red)(Effective with engine #45-2260)
40	4337971	66	□SLEEVE, cylinder (If for engines prior to #45-2260 also order O-RING 4337972)
	4348857		SHIM, cylinder sleeve (.005" thick)
	4348856		SHIM, cylinder sleeve (.008" thick) Use as req'd when
41 🔇	4348859		SHIM, cylinder sleeve (.010" thick) SHIM, cylinder sleeve (.010" thick) inder blocks
	4348858		SHIM, cylinder sleeve (.015" thick)
	4348900		SHIM, cylinder sleeve (.020" thick)
42	4335777	2 2	CAPSCREW, crankcase pad (3/8"NC x 3/4", nylok)(Effective with engine #45-1397)
			NOTE: Items listed below are furnished only with service replace- ment cylinder block and are not original equipment.
43	4335369	1 1	
	903638 904208	$\begin{array}{ccc} 4 & 4 \\ 4 & 4 \end{array}$	
44	4253106	22	\Box O-RING, oil gallery hole cover plates
45	4335782 915666	$\begin{array}{ccc} 1 & 1 \\ 1 & 1 \end{array}$	
46	4506946	2 2	
	904208	3 3	LOCKWASHER, 1/2"
	910195	2 2	NUT, 1/2"NF

DAlso see PACKAGED PARTS

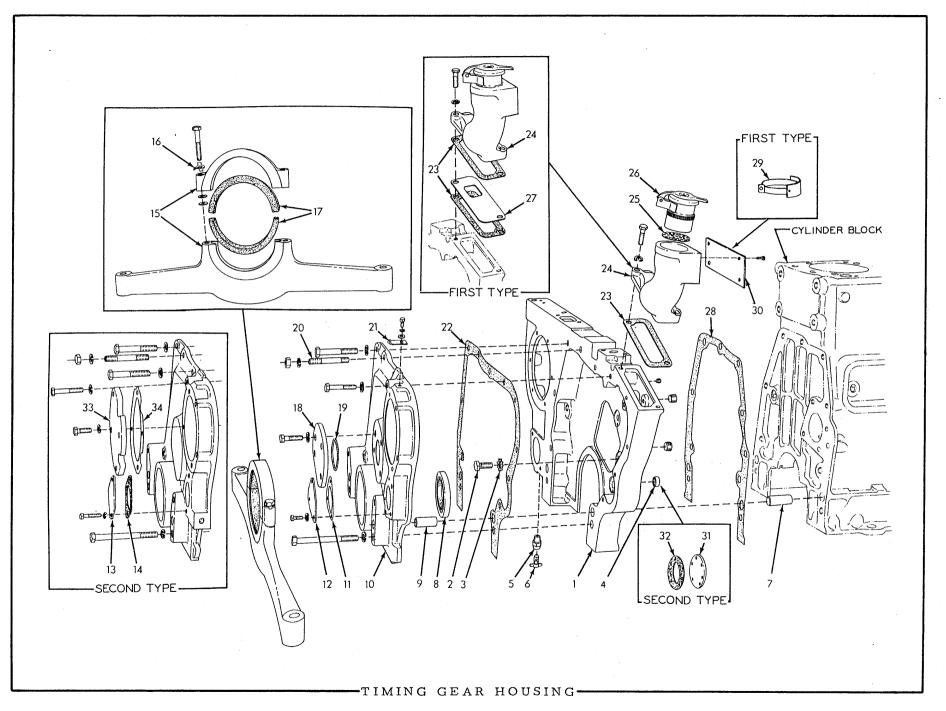
			-PISTON AND CONNECTING ROD
USACE	Graders n	rior to	serial No. 1780
ITEM	PART NO.	QTY.	
11 CM	4347676	6	DESCRIPTION DPISTON
2	4347281	6	□PIN, piston
3	4304699	12	DRETAINER, piston pin
4	4347458	6	□RING, compression (top groove) (See item 13)
5	4347235	12	□RING, compression (2nd and 3rd grooves)(See item 13)
6	4336321	6	□RING, oil control (4th groove)(See item 13)
7	4336190	6	□RING, oil control (5th groove)(See item 13)
8	4348451	6	ROD ASSEMBLY, connecting (Includes items 9 thru 11)
9	4340081	6	BUSHING, connecting rod
10	4338510	12	BOLT, connecting rod
11	4338509 900806	12 12	NUT, connecting rod bolt PIN, cotter, 1/8" x 1"
	4335208	12	BEARING, connecting rod (standard size)(Used prior to engine #45-1670)
	4337701	12	BEARING, connecting rod (standard size)(Effective with engine #45-1670)
12	4337702	12	BEARING, connecting rod (.010" undersize)
	4337703	12	BEARING, connecting rod (.020" undersize)
	4337704	12	BEARING, connecting rod (.030" undersize)
	4337705	12	BEARING, connecting rod (.040" undersize)
13	4336408	6	RING SET (Consists of items 4 thru 7)(Not illustrated)
			□Also see PACKAGED PARTS



- PISTON AND CONNECTING ROD-

USAGE: Graders serial No. 1780 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	4336512	6	DPISTON
2	4337395	6	DPIN, piston
3	4254814	12	DRETAINER, piston pin
4	4347458	6	DRING, compression (top groove) (See item 12)
5	4347235	12	DRING, compression (See item 12)
6	4336559	6	DRING, oil control (See item 12)
7	4339018	6	ROD ASSEMBLY, connecting (Includes items 8 thru 10)
8	4339017	6	BUSHING, connecting rod
9	4338510	12	BOLT, connecting rod
10	4338509 900806	12 12	NUT, connecting rod bolt PIN, cotter, 1/8" x 1"
	4337701	12	BEARING, connecting rod (standard size)
	4337702	12	BEARING, connecting rod (.010" undersize)
11	4337703	12	BEARING, connecting rod (.020" undersize)
	4337704	12	BEARING, connecting rod (.030" undersize)
	4337705	12	BEARING, connecting rod (.040" undersize)
12	4336578	6	RING SET, piston (Not Illustrated)
			DAlso see PACKAGED PARTS



TIMING GEAR HOUSING

* Used prior to grader serial No. 1780** Effective with grader serial No. 1780

ITEM F	PART NO.	QT *	Υ. **	DESCRIPTION
ſ	4347874	1	-	HOUSING, timing gear (Used prior to engine #45-1257)
1	4335274	1	-	HOUSING ASSEMBLY, timing gear (Includes item 4)(Effective with engine #45-1257)
l	4337228	-	1	HOUSING, timing gear
2 3	904260 904223 919134 917970 4004054 4253490	1 - - 3 3	- 1 1 3 3	PLUG, pipe, ctsk-hd., 3/8"NPT PLUG, pipe, ctsk-hd., 1/2"NPT PLUG, pipe, hex-hd., 1/8"NPT PLUG, pipe, hex-socket, 1/2"NPT CAPSCREW, 1/2"NC x 1-1/16" LOCKWASHER
4	4253924	1	-	PLUG, cup (3/4"O.D.)
5 {	915433	1	-	COCK, drain, $1/4$ "NPT (Used prior to grader #820)
j j	201671	1	1	COCK, drain, 3/8"NPT (Includes item 6)(Effective with grader #820)
6	209359	1	1	STEM, drain cock (For 201671 COCK only)
7	4346246	2	2	PIN, dowel, timing gear housing
8	4338507	1	1	SEAL, oil crankshaft
9	4348107	2	2	PIN, dowel, timing gear cover
10	4337281	-	1	COVER ASSEMBLY, timing gear housing (Includes item 9)(If for engines prior to #45-2140 also order 1 CAPSCREW 921299)
	4347887	1	-	COVER ASSEMBLY, timing gear housing (Includes item 9)
	904283 903782 910257 915635 904281 921299 908191 904208 904206	3 1 2 5 - 1 6 5	3 1 2 3 2 1 - 6 5	<pre>CAPSCREW, 1/2"NC x 3" CAPSCREW, 1/2"NC x 3-1/2" CAPSCREW, 1/2"NC x 4-3/4"(1 less used effective with engine #45-2140) CAPSCREW, 3/8"NC x 1-7/8" CAPSCREW, 3/8"NC x 2-1/4" CAPSCREW, 3/8"NC x 2-1/4" CAPSCREW, 1/2"NC x 4" (Effective with engine #45-2140) WASHER, plain (copper)(Used prior to engine #45-1210) LOCKWASHER, 1/2" LOCKWASHER, 3/8"</pre>
11	4376605	1	-	GASKET, cover plate
12	4348285 905661 904205	1 3 3	-	PLATE, cover, timing gear CAPSCREW, 5/16"NC x 5/8" LOCKWASHER, 5/16"
13	4335711	-	1	PLATE, cover, timing gear
14	4335712	-	1 [GASKET, cover plate
			[IAlso see PACKAGED PARTS

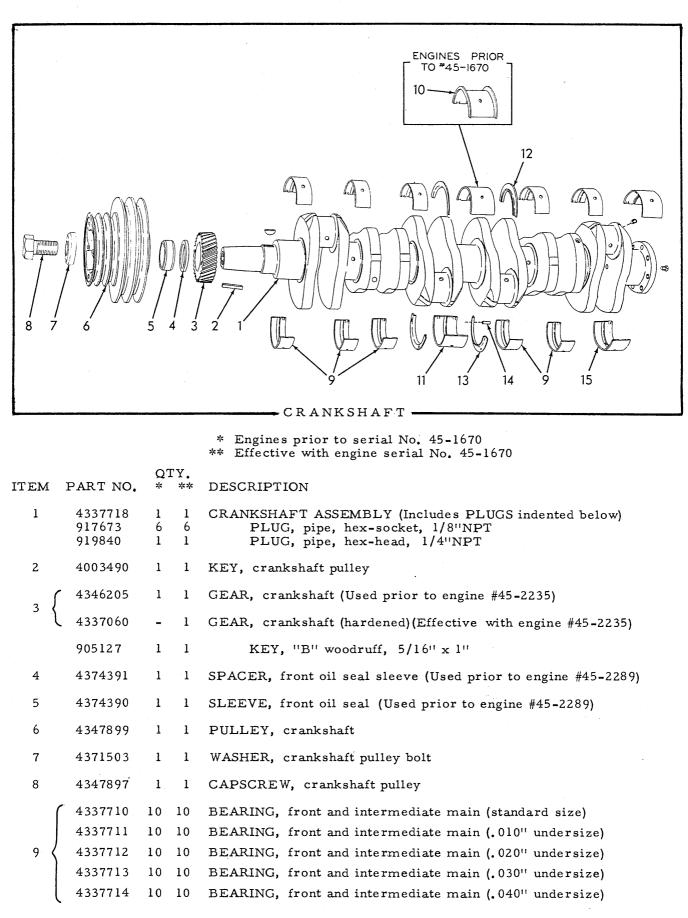
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				TIMING GEAR HOUSING (Continued)
ITEM	PART NO.	QT *	'Y. **	DESCRIPTION
	√ 4349324	1	-	BRACKET, engine mounting (Includes cap)(Used prior to engine #45-1612)
	4335069	1	1	<pre>#45-1612) BRACKET, engine mounting (Includes cap)(Used prior to engine #45-1612)</pre>
16	4254891 916009 4335550	2 10 2	10	CAPSCREW, 1/2"NC x 2-1/2" WASHER, plain (1/32" thick. Use as req'd) LOCKWASHER
(∫ 4364864	2	2	LINER, engine mounting bracket (rubber)(Used prior to engine #45-1932)
17	<pre>4364864 4336491</pre>	-	2	LINER, engine mounting bracket (nylon)(Effective with engine #45-1932)
18	4347935 903638 904208	1 4 4		COVER, timing gear cover camshaft hole CAPSCREW, 1/2"NC x 1-1/4" LOCKWASHER, 1/2"
19	4254082	1	-	DO-RING, camshaft hole cover
20	4335371 904208 910195	1 1 1	1 1 1	STUD, timing gear housing LOCKWASHER, 1/2" NUT, 1/2"NF
21	4347673 903626 904205 910335	1 1 1 1		POINTER, timing CAPSCREW, 5/16"NC x 3/4" LOCKWASHER, 5/16" WASHER, plain, SAE std., 5/16"
22	4348126	1	1	□GASKET, timing gear housing cover
23	4347120	1	1	□GASKET, oil filter hole cover (l additional used prior to grader #365)
24	4338049 910245 904206	1 2 2	2	FILLER ASSEMBLY, oil (Includes item 23 and 24) CAPSCREW, 3/8"NC x 1-3/8" LOCKWASHER, 3/8"
25	4335022	1	1	STRAINER, oil filler (Effective with grader #365)
26	4366461	1	1	CAP ASSEMBLY, oil filler (Serviced only as a unit)
27	089765	1	-	BAFFLE, oil filler (Used prior to grader #365)
28 {	4347880	1	-	□GASKET, timing gear housing
	4348136	-	1	□GASKET, timing gear housing
29	4379291	1	1	PLATE AND STRAP ASSEMBLY, oil data (Used prior to engine #45-2271)
30	4379141. 904516	-	1 4	PLATE, oil data (Effective with engine #45-2271) SCREW, drive, #6 x 1/4"
31	4336346 905661 917230		1 6 6	COVER, timing gear housing CAPSCREW, 5/16"NC x 5/8" WASHER, plain, copper, 5/16"
32	4336345	-	1	DGASKET, housing cover
33	4348310 903775 904206		1 4 4	PLATE, cover, injection pump driving gear CAPSCREW, 3/8"NC x 7/8" LOCKWASHER, 3/8"
34	4349011	-	1	DGASKET, cover plate DAlso see PACKAGED PARTS
				LAISO SEE PACKAGED PARTS



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