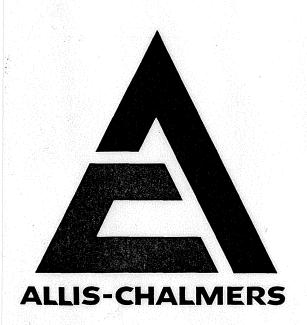
Full download: http://manualplace.com/download/fiat-allis-645-wheel-loader-parts-catalog-16f17383/

Parts
Catalog
for
645
WHEEL
LOADER
(PRIOR TO S/N 2032)



CONSTRUCTION MACHINERY DIVISION SPRINGFIELD, ILLINOIS 62708 U.S.A.

FORM 3057428-9

REPLACES 3043910-3

ADDITIONAL PUBLICATIONS AVAILABLE

FOR

MODEL 645 WHEEL LOADER (S/N Prior to 2032)

ORDER FROM LOCAL ALLIS-CHALMERS DEALER

(Available in Foreign Language as Indicated)

DESCRIPTION SERIAL NO.		FO	ORM NO.	
	ENG LISH	ESPANOL (Spanish)	PORTUGUES (Portuguese)	FRANÇAIS (French)
Parts Catalog				
Cab Glass All	0626019-4			
Injection Pump (Roosa Master)	0659480-3			
Operating Instructions and Field Maintenance Manual				
645 Wheel Loader (Prior to serial no. 1501	3043911-1	3046910-0	3046912-6	3046911-8
645 Wheel Loader (Effective with serial no. 1501 & up)	3047531-3			
Service Manuals				
Axles All	3053547-0	3051865-8	3051866-6	
Brakes All	3047530-5	3052634-7	3052635-4	
Bucket and Chassis All	3055458-8	3054309-4	3054308-6	
Electrical System All	3051888-0	3053922-5	3054307-8	
Engine All	0650824-6	0665234-1	0663050-3	0668379-1
Loader Hydraulic Systems All	3055078-4	3051870-8	3052636-2	
Power Steering All	3055077-6	3052606-5	3052639-6	
Service Tools All	0650850-1			
Transmission, Torque Converter, Charging Pump All	3044122-4	3052630-5	3052631-3	
TurbochargerAll	0649088-2	0668380-9	0668381-7	0668382-5

IMPORTANT

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.

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

Parts indicated with a square (\Box) are also available in packaged sets. Refer to section titled "PACKAGED PARTS".

The terms "right" and "left" used throughout this parts catalog 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.

INSTRUCTIONS FOR ORDERING PARTS

Order parts from the dealer covering the local territory.

ALWAYS GIVE THE MODEL AND SERIAL NUMBER OF MACHINE. IF PARTS ARE FOR AN ASSEMBLY WHICH HAS A MODEL AND/OR SERIAL NUMBER (SUCH AS ENGINE ASSEMBLY, PUMP ASSEMBLY), ALSO INCLUDE THIS INFORMATION.

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.

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.

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.

The information contained herein is general in nature and is not intended for specific application purposes. Allis-Chalmers reserves the right to make changes in specifications shown herein or add improvements, at any time without notice or obligation.

MODEL IDENTIFICATION

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

MODEL SYMBOL

ENGINE MODEL

DESCRIPTION

645

3500

Turbocharged Diesel powered engine, articulated four wheel drive loader unit of "modular" design, equipped with: power shift transmission, torque converter, planetary axles, power steering and power brakes.

RECORD YOUR SERIAL NUMBERS BELOW

WHEEL LOADER SERIAL NO								
ENGINE SERIAL NO.								
TRANSMISSION SERIAL NO.								
AXLE SERIAL NO								

SERIAL NUMBER LOCATION

LOADER SERIAL NO: On plate attached to the transmission control lever pedestal to the left

of the operators seat.

ENGINE SERIAL NO: On plate attached to the right hand side of the engine block above starting

motor.

TRANSMISSION SERIAL NO: On plate attached to the right side of the transmission housing.

AXLE SERIAL NO: On plate attached to the axle housing.

NOTICE

To better serve our Customers we have added a "check digit" to validate all part numbers in our numerical index. We have also added zeros to the left of any number which consisted of less than 7 digits in order to confrom to the 8 digit system used at our Parts Central Depot. Because this is only a revision to our present Parts Catalog, check digits and zeros have only been added to part numbers on new or revised pages.

EXAMPLE

0's added to confrom Check Digit to 8 digit system. $\begin{bmatrix} 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 1 & 7 & 0 & 9 & 6 & 0 \end{bmatrix}$

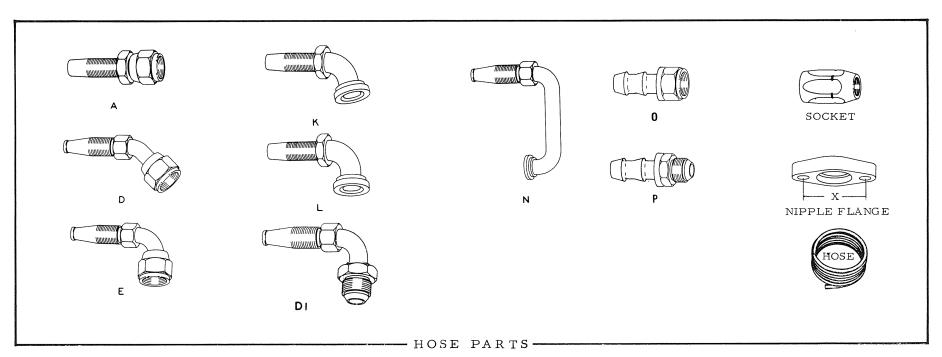
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Refer to right hand column for identity of interchangeable crimped-type hose (fittings not re-usable).

Assembly number shown in <u>left hand column</u> indicates available replacement hose assembly with re-usable components; where <u>no</u> assembly number is listed, hose assembly is not available from factory but may be constructed in the field from data indicated.

HOSE BULK ASSEMBLY HOSE		HOSE LENGTH	NIPPLE (#1 end)			NIPPLE (#2 end)			SOCKET (both ends)	NIPPL FLANC		CRIMPED- TYPE HOSE
NO. (See NOTE)	(25' roll)	(inches)	Including	NIPPLE		Including	NIPPLE				Х	(See NOTE)
(2001.012)			SOCKET	only	Type	SOCKET	only	Туре		Part No.	Dim	Part No.
3041394	920720	17-5/8	920805		0	920800		P				3042611
	920221					920852	920344	A	919281	920412	2-1/2	3043064
	920221	49	920852	920344	0	920867	919277	E	919281			3043152
	920388	26-1/4	920389		P	920806		0				3043323
	920388	24-3/8	920806		0	920806		0				3043344
	920720	38-1/2	920829		Comp	920805		0				3043347
	92,0793	40-3/8	920942	921562	A	920942	921562	A	920971			3043353
	920221	41-7/8	920852	920344	A	920867	919277	E	919281			3043426
	020720	17 1/2	020005			020805				}	1	3044096

 919156	10-3/4	920865	-	E	920805		E			3044141
924031	21-1/4	924043	-	K	924041		A			3044142
 920794	32	923506	922894	L	923506	922894	L	920972		3044144
920794	32	923506	922894	L	923506	922894	L	920972		3044145
920795	22-1/4	920945	922831	A	920945	922831	A	920973		3044146
920795	13-3/8	3011219		L	3011219		L			3044147
 920794	29-3/4	923506	922894	L	921020	922830	A	920972		3044149
920795	17-1/4	925073		K	920945	922831	A	920973		3044150
924031	74-3/4	924043		Dl	924042	923660	E		·	3044151
920794	32	923506	922894	L	923506	920894	L	920972		3044164
920794	32	923506	922894	L	923506	922894	L	920972		3044165
920793	77-1/4	920951	921563	E	920961	921302	D1	920971		3044172
920795	9-3/8	925224		K	920945	922831	A	920973		3044173
920221	68-1/4	920874	921042	E	920852	920344	A	919281		3044174
920795	11	3011219		L	925075		K			 3044196
920795	11-3/8	925075		K	920945		A			3044242
919156	25-1/2	920902	921226	A	920902	921226	A	919820		3044967
924031	16-1/4	924041		A						3044978
920795	58-3/4	920945	922831	A	920945	922831	A	920973		 3045624
920795	35-1/8	920945		A	920945		A			3045625
920795	28	924239		K	3011219		L	920973		3045838
920221	65-3/4	920874	921042	E	920874	921042	E	919281		3045845
920795	33-3/16	923486			920958					3047084
 920795	20-1/2	3011219		L	920945		A			3047086
920794		3050486		N	3050487		D			3050430
920795	24-1/4	3050483		N	925267		L	920973		3050432
920795	32-1/2	925267		L	923486		J	920973		3053413
920794	13-1/4	920962	921564	D	923904		J	920972		3053427
920795	10-1/2	925267		L			N			3053731
922337	55-3/4	920867	919277	E	920874	921042	E			3055286
922356	44-1/2	925267		L	927337		L			3055287
922356	26			L			N			3055288

PACKAGE NO.	DESCRIPTION
	REPAIR KIT, cylinder (See DUMP CYLINDER)
	REPAIR KIT, cylinder (See LIFT CYLINDER)
	REPAIR KIT, cylinder (See POWER STEERING CYLINDER)
	REPAIR KIT, master cylinder (See MASTER CYLINDER ASSY.)
	REPAIR KIT, wheel cylinder (See WHEEL CYLINDER ASSY.)
	LINING KIT (See BRAKE ASSY.)
	DECAL KIT (See PAINTING AND MARKING)
	RING SET, piston (See PISTON AND CONNECTING ROD)
	REPAIR KIT, pump (See WATER PUMP)
3022040-4	SPACER KIT, pinion bearing, front axle
3022010 1	1 3022446-3 SPACER (.259" thick) 1 3022447-1 SPACER (.260" thick) 1 3022448-9 SPACER (.261" thick) 1 3022449-7 SPACER (.262" thick) 1 3022450-5 SPACER (.263" thick) 1 3022451-3 SPACER (.264" thick)
3022041-2	SPACER KIT, pinion bearing, front axle
	1 3022452-1 SPACER (.270" thick) 1 3022453-9 SPACER (.276" thick) 1 3022454-7 SPACER (.282" thick) 1 3022455-4 SPACER (.288" thick) 1 3022456-2 SPACER (.294" thick)
3024603-7	SPACER KIT, pinion cage, rear axle
	1 3024605-2 SPACER (.219" thick) 1 3024606-0 SPACER (.220" thick) 1 3024607-8 SPACER (.221" thick) 1 3024608-6 SPACER (.222" thick) 1 3024609-4 SPACER (.223" thick) 1 3024610-2 SPACER (.224" thick)
3024611-0	SPACER KIT, pinion cage, rear axle
	1 3024612-8 SPACER (.230" thick) 1 3024613-6 SPACER (.236" thick) 1 3024614-4 SPACER (.242" thick) 1 3024615-1 SPACER (.248" thick) 1 3024616-9 SPACER (.254" thick)
3024625-0	SHIM KIT, pinion bearing cage assy., rear axle
	1 3024624-3 SHIM (.003" thick) 1 3024626-8 SHIM (.005" thick) 1 3024627-6 SHIM (.010" thick)

PACKAGE NO.

3046168-5

3046957-1

```
DESCRIPTION
SEAL AND GASKET KIT, transmission (2-speed forward, 1-speed reverse)
24 3021041-3
                 NUT
    3021053-8
                 SEAL, oil, shifter shaft
                 GASKET, strainer and core cover
    3021056-1
    3021058-7
                 RING, seal
    3027012-8
                 RING, seal, cover
1
    3031847-1
                 CUP, cut-off plug
    3035714-9
                 RING, seal, hi-clutch
1
2
    3039422-5
                 SEAL, oil, valve
    3042138-2
2
                 SEAL KIT (Includes expander)
2
    3042146-5
                 SEAL KIT (Includes expander)
                 SEAL KIT (Includes expander)
1
    3042151-5
    3044377-4
                 STRIP, locking, pump retainer
6
                 RING, seal
GASKET, oil pump
GASKET, housing, transmission
    3044382-4
1
    3044386-5
    3044390-7
1
    3044400-4
                 RING, seal, suction tube nut
1
1
    3044402-0
                 GASKET, cover, oil pump
    3044409-5
                 SEAL, oil
1
                 RING, seal, rear cover
    3044411-1
1
    3044414-5
                 NUT
2
    3044422-8
                 RING, seal, 2nd turbine
    3044460-8
                 TAB, lock, piston housing
2
    3044462-4
                 SEAL, oil, output shaft
2
    3044474-9
                 GASKET
                 GASKET, trimmer valve
1
    3044485-5
2
    3044489-7
                 GASKET, cut-off plug
6
    3046029-9
                 STRIP, locking
    3048782-1
                 GASKET, control valve
    3051197-6
                 DIAPHRAGM
    3054475 - 3
                 GASKET, pump, torque converter
                 SEAL, oil (Not used-discard)
    _____
1
    _____
                 RING, seal (Not used-discard)
    _____
                 INSTRUCTION SHEET
SEAL AND GASKET KIT, transmission (2-speed forward, 2-reverse)
24 3021041-3
                 NUT, converter cover
    3021053-8
                 SEAL, oil, shaft
                 GASKET, strainer assy.
3
    3021056-1
1
    3021058-7
                 RING, seal cut-off, valve plug
2
    3021121-3
                 RING, seal, low piston
1
    3026156-4
                 SEAL, oil, pump body
1
    3027012-8
                 RING, seal, cover
    3027016-9
                 RING, seal converter drive
    3031847-1
                 CUP, plug
    3039422-5
                 SEAL, range selector valve
                 SEAL KIT (Includes expander)
SEAL KIT (Includes expander)
    3042138-2
    3042146-5
1
                 SEAL KIT (Includes expander)
    3042147-3
1
    3044377-4
                 STRIP, locking, pump retainer
1
    3044382-4
                 RING, seal, input gear
1
                 GASKET, oil pump
1
    3044386-5
    3044390-7
                 GASKET, transmission housing
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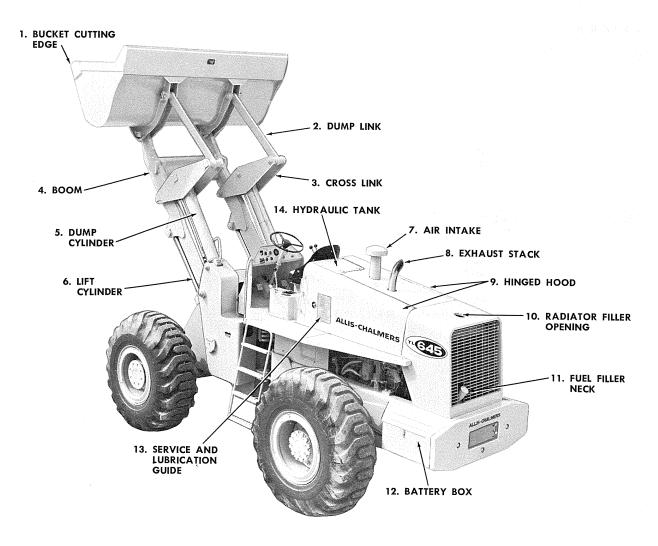
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PACKAGE NO. DESCRIPTION 3046957-1 SEAL AND GASKET KIT, transmission (2-speed forward, 2-reverse)(Cont. 1 3044400-4 RING, seal, nut, suction tube 1 3044402-0 GASKET 1 3044409-5 SEAL, accessory drive 1 3044411-1 RING, seal, rear housing NUT, drive flange RING, seal, ground sleeve 2 3044414-5 3044422-8 2 3 3044462-4 SEAL, oil 3044474-9 GASKET, plug GASKET, trimmer valve 2 1 3044485-5 1 3044489-7 GASKET, cut-off, valve plug 3045285-8 GASKET, adapter, rear housing 1 2 3045289-0 RING, seal SEAL KIT (Includes expander) 1 3045313-8 3045320-3 1 GASKET, rear housing 3045327-8 SEAL, oil 1 1 3048782-1 GASKET, control valve 3051197-6 DIAPHRAGM AND SEAL ASSY. 1 3054475-3 GASKET, pump 4027283-3 GASKET KIT, intermediate 0226012-3 GASKET, drain plug 1 O-RING, rear plate (Not used-discard) 1 0923376-8 2 0923649-8 O-RING, oil cooler 0923664-7 O-RING, oil cooler 1 0923684-5 O-RING, volute 1 0923814-8 O-RING, oil cooler 0923816-3 O-RING, adapter 1 1 0923817-1 O-RING, drive housing O-RING, water pump 1 0923822-1 O-RING, rear plate GASKET, cover plate GASKET, cover plate GASKET, cover plate 1 4020879-5 1 4025019-3 2 4025021-9 2 4025080-5 O-RING, rear plate GASKET, inlet pipe GASKET, oil filter 1 4025097-9 4025106-8 1 2 4025120-9 4025306-4 GASKET, cover plate (Not used-discard) 1 4025343-7 GASKET, cover 1 1 4025367-6 GASKET, oil cooler (Not used-discard) 4025622-4 GASKET, compressor bracket 1 2 4025632-3 GASKET, oil cooler 1 4026548-0 GASKET, inspection plate 1 4027751-9 GASKET, front cover 4027752-7 1 GASKET, front plate 4105456-0 1 GASKET, plug (Not used-discard) GASKET, timing hole (Not used-discard) GASKET, cover (Not used-discard) GASKET, oil cooler (Not used-discard) GASKET, cover plate (Not used-discard) 1 4336676-4 1 4337740-7 4349984-7

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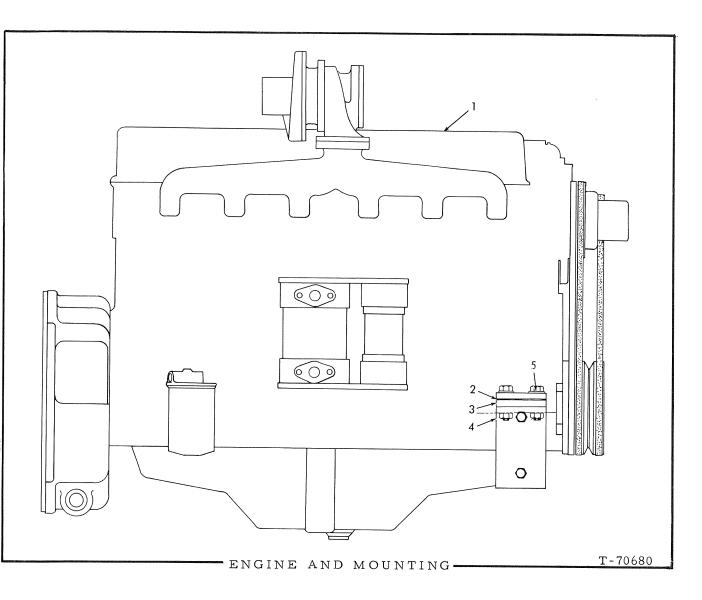
4371289-2

PACKAGE NO.	DESCRIPTION	
4027785-7	GASKET KIT, cylinder head	
	2 4025101-9 GASKET, flange and thermostat house days for the second of t	
4028090-1	SLEEVE KIT (Includes piston)	
	2 4025015-1 RING, cylinder sleeve (lower) 1 4025036-7 PIN, piston 1 4026578-7 SLEEVE, cylinder 1 4026973-0 PISTON 1 4026982-1 RING SET, piston 2 4254608-5 RETAINER, piston pin	

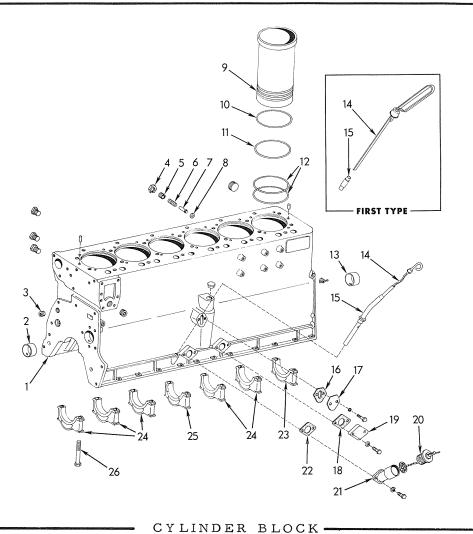


MODEL TL645 (Diesel) TRACTOR LOADER

T-72540



ITEM		PART NO.	QTY.	DESCRIPTION
1	{	4025605-9 4026670-2	1	ENGINE ASSY. (Less air cleaner, fan and starter) (Used prior to engine serial no. 3D-05351, excluding 3D-05195, 3D-05196, 3D-05217 thru 3D-05347)
		4026670-2	1	ENGINE ASSY. (Less air cleaner, fan and starter) (Effective with engine serial no. 3D-05351, including 3D-05195, 3D-05196, 3D-05217 thru 3D-05347)
		0913105-3		CAPSCREW, $1/2$ " NF x 1-1/2"
		0914487-4	-	NUT, safety, 1/2" NF
		0912415-7	2	COCK, drain, 1/4" NPT
2		3043879-0	2	SHIM, engine mounting (.0598" thick. Use as req'd)
3		3043878-2	2	BLOCK, engine mounting
4	{	3052961-4 3052963-0	1	BRACKET, engine mounting, left
	l	3052963-0	1	BRACKET, engine mounting, right
		0915790-0	4	CAPSCREW, 5/8" NF x 3"
5		3026289-3	4	WASHER, plain
		0916589-5	4	NUT, safety, 5/8" NF



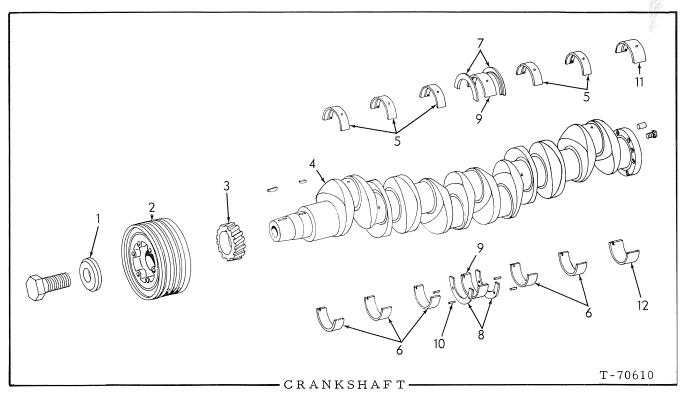
T-70608

ITEM PART NO. QTY. DESCRIPTION 4027644 4028801 BLOCK ASSEMBLY, cylinder (Includes PLUGS and items 2, 3, 13, & 23 thru 26) PIN, dowel, $7/16" \times 3/4"$ PLUG, pipe, 1/2" NPT PLUG, pipe, l" NPT PLUG, pipe, 1/8" NPT PLUG, pipe, ctsk., 1/2" NPTF PIN, dowel, 1/2" x 1-3/8" PLUG, pipe, ctsk., 1/2" NPT PLUG, pipe, oil gallery PLUG, distributor hole PLUG, pipe, 1/8" PLUG, pipe, 1/4" BEARING, camshaft, front (Std.) BEARING, camshaft, front (.010" undersize) PLUG, pipe, restrictor SCREW, oil pressure regulating valve NUT, jam, 3/4" NF SPACER, oil pressure regulating valve

(Continued)

CYLINDER BLOCK (Continued)

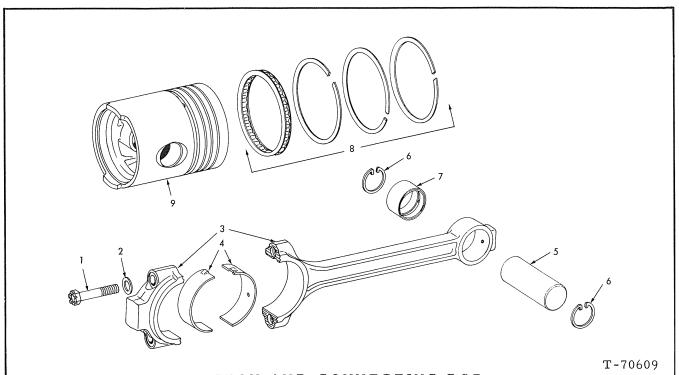
ITEM		PART NO.	QTY.	DESCRIPTION
6		4500231-8	1	SPRING, oil pressure regulating valve
7		4507374-9	1	PISTON, oil pressure regulating valve
8		4507673-4	1	INSERT, oil pressure regulating valve
9		4025013-6	6	SLEEVE, cylinder
		4025298-3	-	SHIM, cylinder sleeve (.005" thick. Use as req'd)
10		4025299-1	-	SHIM, cylinder sleeve (.010" thick. Use as req'd)
10		4025300-7	-	SHIM, cylinder sleeve (.015" thick. Use as req'd)
		4025301-5	-	SHIM, cylinder sleeve (.020" thick. Use as req'd)
11		4025014-4	6	O-RING, cylinder sleeve (Upper) (Used prior to engine serial no. 3D-03992)
12		4025015-1	12	O-RING, cylinder sleeve (Lower)
13	5	4025238-9	5	BEARING, camshaft (Int. & rear) (Std.)
13	ſ	4025258-7	5	BEARING, camshaft (Int. & rear) (.010" undersize)
14	{	4026457-4	1	GAUGE, oil level (Used prior to engine serial no. 3D-05351, excluding 3D-05195, 3D-05196, 3D-05217 thru 3D-05347)
	Ĺ	4026592-8	1	GAUGE, oil level (Effective with engine serial no. 3D-05351, including 3D-05195, 3D-05196, 3D-05217 thru 3D-05347)
15	{	4025314-8	1	ADAPTER, oil level gauge (Used prior to engine serial no. 3D-05351 excluding 3D-05195, 3D-05196, 3D-05217 thru 3D-05347)
	Ĺ	4026849-2	1	ADAPTER, oil level gauge (Effective with loader serial no. 3D-05351 including 3D-05195, 3D-05196, 3D-05217 thru 3D-05347)
16		4025019-3	1	GASKET, vacuum line adapter
17		4026383-2 0915809-8 0904205-2	1 2 2	PLATE, fuel pump pad CAPSCREW, 5/16" NC x 3/4" LOCKWASHER, 5/16"
18		4025021-9	1	GASKET, oil filler plate
19		4026382-4 0916269-4 0904206-0	1 2 2	PLATE, oil filler hole CAPSCREW, 3/8" NC x 7/8" LOCKWASHER, 3/8"
20		4354449-3	1	CLOSURE ASSY. (Serviced only as a unit)
21		4025717-2 0914847-9 0904206-0	1 2 2	ELBOW ASSY., oil filler (Includes item 20) CAPSCREW, 3/8" NC x 1-1/2" LOCKWASHER, 3/8"
22		4025021-9	1	GASKET, elbow oil filler
23		4025247-0	1	CAP, rear main bearing (See Note)
24		4025245-4	5	CAP, intermediate & front main bearing (See Note)
25		4025246-2	1	CAP, center main bearing (See Note)
26		4025062-3	14	CAPSCREW, main bearing caps
				NOTE: Replacement bearing caps are semi-finished and must be line-bored after installing.
				(Also see PACKAGED PARTS)



ITEM	PART NO.	QTY.	DESCRIPTION
1	4025115 918297	1 1	WASHER, pulley CAPSCREW, 1" NF x 2"
2	4025589 905845	1 1	PULLEY, crankshaft KEY, woodruff, $1/4$ " x $7/8$ "
3	4025041 905845	1 1	GEAR, crankshaft KEY, woodruff, 1/4" x 7/8"
4	4025478 919840	1 1	CRANKSHAFT ASSEMBLY (Includes PLUG) PLUG, pipe, 1/4" NPT (Used prior to engine serial no.
	4025006	5	3D-07441) BEARING, front & intermediate, upper (Std.)
	4025271	5	BEARING, front & intermediate, upper (.002")
	4025272	5	BEARING, front & intermediate, upper (.010")
5	4025273	5	BEARING, front & intermediate, upper (.020")
	4025274	5	BEARING, front & intermediate, upper (.030")
	4025275	5	BEARING, front & intermediate, upper (.040")
ſ	4025007	5	BEARING, front & intermediate, lower (Std.)
	4025266	5	BEARING, front & intermediate, lower (.002")
	4025267	5	BEARING, front & intermediate, lower (.010")
6	4025268	5	BEARING, front & intermediate, lower (.020")
	4025269	5	BEARING, front & intermediate, lower (.030")
L	4025270	5	BEARING, front & intermediate, lower (.040")
			(Continued)

CRANKSHAFT (Continued)

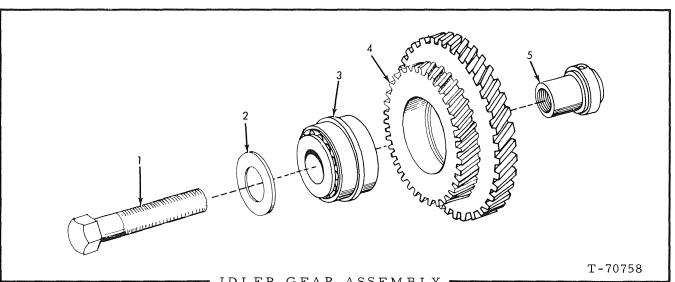
ITEM		PART NO.	QTY.	DESCRIPTION
	(4025010	2	FLANGE, thrust, upper (Std.)
7		4025263	2	FLANGE, thrust, upper (.005")
7		4025264	2	FLANGE, thrust, upper (.010'')
	L	4025265	2	FLANGE, thrust, upper (.015")
		4025011	2	FLANGE, thrust, lower (Std.)
0		4025260	2	FLANGE, thrust, lower (.005")
8		4025261	2	FLANGE, thrust, lower (.010")
		4025262	2	FLANGE, thrust, lower (.015")
		4025292	1	BEARING KIT, center (Std.)
		4025293	1	BEARING KIT, center (.002")
		4025294	1	BEARING KIT, center (.010")
9	1	4025295	1	BEARING KIT, center (.020")
		4025296	1	BEARING KIT, center (.030")
		4025297	1	BEARING KIT, center (.040")
				NOTE: Each bearing kit listed above includes upper and lower bearings, set of standard thrust flanges and groove pins.
10		4251746	4	PIN, groove, thrust flange
		4025008	1	BEARING, rear, upper (Std.)
		4025281	1	BEARING, rear, upper (.002")
		4025282	1	BEARING, rear, upper (.010'')
11		4025283	1	BEARING, rear, upper (.020")
		4025284	1	BEARING, rear, upper (.030")
		4025285	1	BEARING, rear, upper (.040'')
		4025009	1	BEARING, rear, lower (Std.)
		4025276	1	BEARING, rear, lower (.002")
1.2		4025277	1	BEARING, rear, lower (.010")
12	1	4025278	1	BEARING, rear, lower (.020")
		4025279	1	BEARING, rear, lower (.030")
		4025280	1	BEARING, rear, lower (.040")



-PISTON AND CONNECTING ROD-

ITEM	PART NO.	QTY.	DESCRIPTION
1	4027334	12	CAPSCREW, connecting rod
2	4025070	12	WASHER, flat, connecting rod
3	4027332	6	ROD ASSEMBLY, connecting (Includes items 1, 2 and 7)
4	4025030	12	BEARING, connecting rod (Std.)
	4025253	12	BEARING, connecting rod (.002")
	4025254	12	BEARING, connecting rod (.010")
	4025255	12	BEARING, connecting rod (.020")
	4025256	12	BEARING, connecting rod (.030")
	4025257	12	BEARING, connecting rod (.040")
5	4026505	6	□PIN, piston
6	4254608	12	□RETAINER, piston pin
7	4025031	6	BUSHING, connecting rod
8	4026982	6	□RING SET, piston
9	4026973	6	□PISTON
			□(Also see PACKAGED PARTS)

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IDLER	GEAR	ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	921539	1	CAPSCREW, retaining idler gear
2	4025461	1	WASHER, idler gear capscrew
3	4025082	1	BEARING ASSEMBLY, idler gear
4	4027769 922546	$\frac{1}{4}$	GEAR, idler CAPSCREW, 1/2" NF x 1" (Used prior to engine serial #3D-02980)
5	4020102	1	SHAFT, idler gear