



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Allis Chalmers

Parts Manual

S Crawler

Parts Manual

purchase full manual at

JENSALES.COM

or Call **800-443-0625**

JENSALES

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
ALLIS CHALMERS OR IT'S SUCCESSORS. **ALLIS CHALMERS** AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

AC-P-S

INDEX

<u>Name</u>	<u>Page</u>	<u>Name</u>	<u>Page</u>
Air Cleaner.	25	Lubricator, Flushing.	65 thru 68
Bevel Gear	39	Manifolds, Exhaust and Intake	25
Brakes	47	Manifold, Water	19
Bumper	49	Master Clutch	33
Camshaft	7	Master Clutch Controls.	34
Carburetor	25	Oil Filter.	11
Case and Covers, Transmission.	31, 81	Oil Lines	13
Cleaner, Air	25	Oil Pump.	9
Clutch, Master	33	Piston.	8
Clutch, Steering	39	Power Pulley.	77
Connecting Rod	8	Power Takeoff	79
Control, Steering Clutch	41	Pulley, Power	77
Crankcase.	5	Pull Hook, Front.	49
Crankshaft	7	Pump, Oil	9
Crank, Stabilizer (62" Tread Model).	81	Pump, Water	17
Crank, Stabilizer (74" Tread Model).	59	Radiator.	19
Cylinder Block	5	Radiator Shell.	49
Cylinder Head.	16	Rear Fender	63
Drawbar.	57	Roller, Track Support	53
Electrical System.	19	Seat.	63
Engine Hood.	61	Shell, Radiator	49
Exhaust Manifold	25	Spring, Stabilizer (62" Tread Model).	81
Fan.	17	Spring, Stabilizer (74" Tread Model).	59
Fender, Front.	61	Spring, Track Release	53
Fender, Rear	63	Stabilizer Crank (62" Tread Model).	81
Filter, Oil.	11	Stabilizer Crank (74" Tread Model).	59
Final Drive (62" Tread Model).	81	Stabilizer Spring (62" Tread Model).	81
Final Drive (74" Tread Model).	35	Stabilizer Spring (74" Tread Model).	59
Flywheel	7	Starting Crank.	61
Frame, Truck	49	Steering Clutch	39
Front Fender	61	Steering Clutch Control	41
Front Track Idler.	55	Street Plates	80
Fuel System.	27	Takeoff, Power.	79
Gear, Bevel.	39	Throttle Control.	28
Gear Shift	45	Tool Equipment.	65
Gears, Transmission.	43	Track	57
Governor	15	Track Release	53
Grease Guns.	65 thru 75	Track Support Roller.	53
Grousers	80	Transmission Case (62" Tread Model).	81
Head, Cylinder	16	Transmission Case (74" Tread Model).	31
Hood, Engine	61	Transmission Gears.	43
Hook, Front Pull	49	Truck Frame	49
Idler, Front Track	55	Truck Wheel	51
Ignition	21	Water Manifold.	19
Instruments.	29	Water Pump.	17
Intake Manifold.	25	Wheel, Truck.	51

CLICK ANYWHERE FOR MORE DETAILS

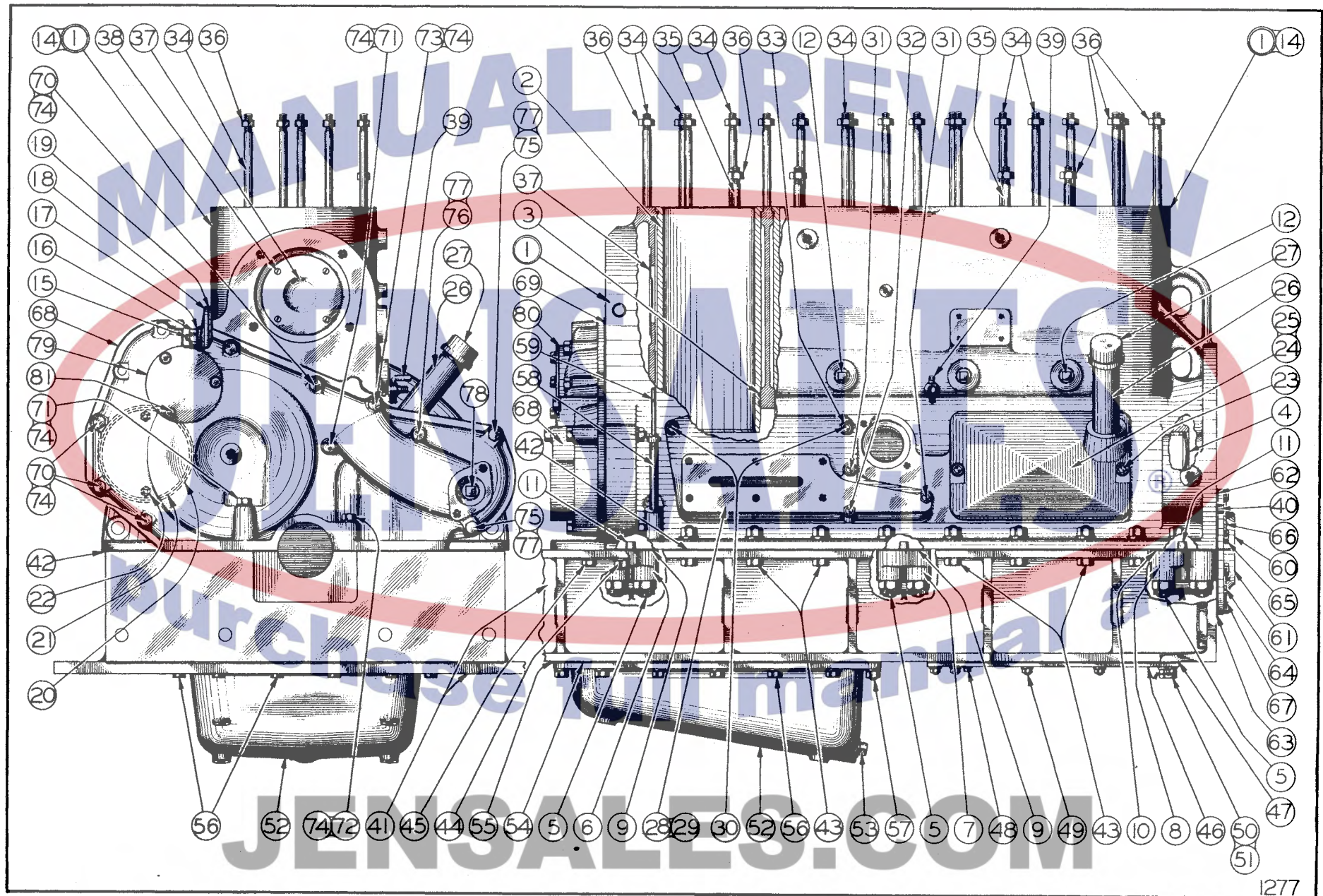


PLATE I - CYLINDER BLOCK AND CRANKCASE

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

ENGINE SECTION

TRACTOR SERIAL NO. S-486 AND ABOVE
ENGINE SERIAL NO. S-3 AND ABOVE

CYLINDER BLOCK AND CRANKCASE (See Plate 1)

Item	Part Number	Qty.	Name
1	207053	1	Cylinder Block Assembly (Includes Items 3 thru 14, 37, and 38; also Camshaft Bushings and Distributor Bushings)
2	AM-41317	4	Cylinder Sleeve 5-3/4" Bore
3	AM-9635	8	Rubber Packing Ring
4	910011	1	Expansion Plug 2-1/2" Dia.
5	AM-8208	12	Main Bearing Stud 3/4" x 4-1/16"
	208860	12	Special Nut
	206008	6	Lockwire 3/32" x 8"
6	209000	1	Main Bearing Cap - Front
7	208998	1	Main Bearing Cap - Center
8	208999	1	Main Bearing Cap - Rear
9	AM-9637	4	Main Bearing Shim - Front and Center
10	AM-9638	2	Main Bearing Shim - Rear
11	AM-7959	6	Main Bearing Cap Dowel
12	901366	4	Countersunk Pipe Plug 1" Standard
14	AM-9300	4	Set Screw Filler Plug
15	AM-8667	2	Valve Cover Stud
16	900369	2	Hex Nut 1/2" N.C.
17	205988	2	Copper Washer
18	AM-8700	2	Valve Cover
19	AM-4964	2	Valve Cover Gasket
20	204432	1	Cylinder Block Hole Cover
21	AM-8578	1	Rubber Packing Ring
22	903776	2	Hex Capscrew 3/8" N.C. x 3-1/2"
	U-4013	2	Washer
	AM-8692	4	Crankcase Cover Stud 3/8" x 1-5/8"
23	900367	4	Hex Nut 3/8" N.C.
	904206	4	Lockwasher 3/8"
24	204549	1	Crankcase Cover - Rear
25	AM-4917	1	Crankcase Cover Gasket - Rear
26	910222	1	Pipe Nipple 1-1/4" x 7"
27	901756	1	Pipe Cap 1-1/4" Standard
28	209961	1	Crankcase Cover and Oil Filter Bracket - Front
29	205325	1	Crankcase Cover Gasket - Front
30	204949	2	Crankcase Cover Stud 3/8" x 1-3/4"
31	205294	2	Crankcase Cover Stud 3/8" x 2-7/8"
32	U-1852	1	Crankcase Cover Stud 3/8" x 2-3/4"
33	900367	5	Hex Nut 3/8" N.C.
	904206	5	Lockwasher 3/8"
34	204217	16	Cylinder Head Stud 1/2" x 6-3/4"
35	208628	8	Cylinder Head Stud 1/2" x 5-13/16"
36	AM-8999	24	Cylinder Head Stud Nut
37	206154	1	Water Retainer Plate
38	901153	4	Countersunk Machine Screw #10-24 x 1/2"
39	911195	1	Drain Cock 1/4"
40	AM-7959	2	Cylinder Block Dowel
41	205207	1	Crankcase Bottom
42	205344	2	Crankcase Bottom Gasket
	205219	18	Capscrew 5/8" x 2"
43	900370	18	Hex Nut 5/8" N.F.
	904209	2	Lockwasher 5/8"
	903643	2	Hex Capscrew 5/8" N.C. x 1-1/4"
44	904209	2	Lockwasher 5/8"
	903638	2	Hex Capscrew 1/2" N.C. x 1-1/4"
45	904208	2	Lockwasher 1/2"
46	205220	1	Crankcase Bottom Cover
47	205300	1	Crankcase Bottom Cover Gasket
48	901783	1	Pipe Plug 1/4" Standard
	U-386	12	Cover Stud 3/8" x 1-3/8"
49	900367	12	Hex Nut 3/8" N.C.
	904206	12	Lockwasher 3/8"
	205218	2	Capscrew 3/4" x 8-3/4" - Drilled Head
50	AM-8432	2	Copper Washer
	206005	1	Lockwire 1/16" x 24"
51	205819	2	Capscrew Gasket
	900704	2	Plain Washer
52	204423	1	Oil Sump
53	912768	1	Pipe Plug 1" Standard
54	204427	1	Oil Sump Plate
55	204424	2	Oil Sump Plate Gasket
	903638	14	Hex Capscrew 1/2" N.C. x 1-1/4"
56	904208	14	Lockwasher 1/2"
	U-1069	4	Oil Sump Stud 1/2" x 2"
57	900369	4	Hex Nut 1/2" N.C.
	904208	4	Lockwasher 1/2"

(Continued)

CYLINDER BLOCK AND CRANKCASE (Continued)
(See Plate 1)

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Name</u>
58	205317	1	Oil Gauge Bushing
59	205318	1	Oil Gauge Rod
60	AM-70790	1	Seal Retainer - Upper
61	AM-70789	1	Seal Retainer - Lower
62	AM-8824	1	Seal Retainer Gasket - Upper
63	AM-8823	1	Seal Retainer Gasket - Lower
64	AM-8953	4	Oil Seal Dowel
65	AM-8822	7	Capscrew 3/8" x 1" - Drilled Head
66	206004	1	Lockwire 1/16" x 18"
67	206005	1	Lockwire 1/16" x 24"
68	205336	1	Timing Gear Cover
69	205341	1	Timing Gear Cover Gasket
70	904283	5	Hex Capscrew 1/2" N.C. x 3"
71	903782	2	Hex Capscrew 1/2" N.C. x 3-1/2"
72	903642	1	Hex Capscrew 1/2" N.C. x 2-1/2"
73	906701	1	Hex Capscrew 1/2" N.C. x 4"
74	904208	9	Lockwasher 1/2"
75	910257	2	Hex Capscrew 1/2" N.C. x 4-3/4"
76	910258	1	Hex Capscrew 1/2" N.C. x 6"
77	900369	3	Hex Nut 1/2" N.C.
78	904208	3	Lockwasher 1/2"
79	912726	1	Pipe Plug 3/4" Standard
80	205342	1	Inspection Cover
81	205343	1	Inspection Cover Gasket
	903629	3	Hex Capscrew 3/8" N.C. x 3/4"
	904206	3	Lockwasher 3/8"

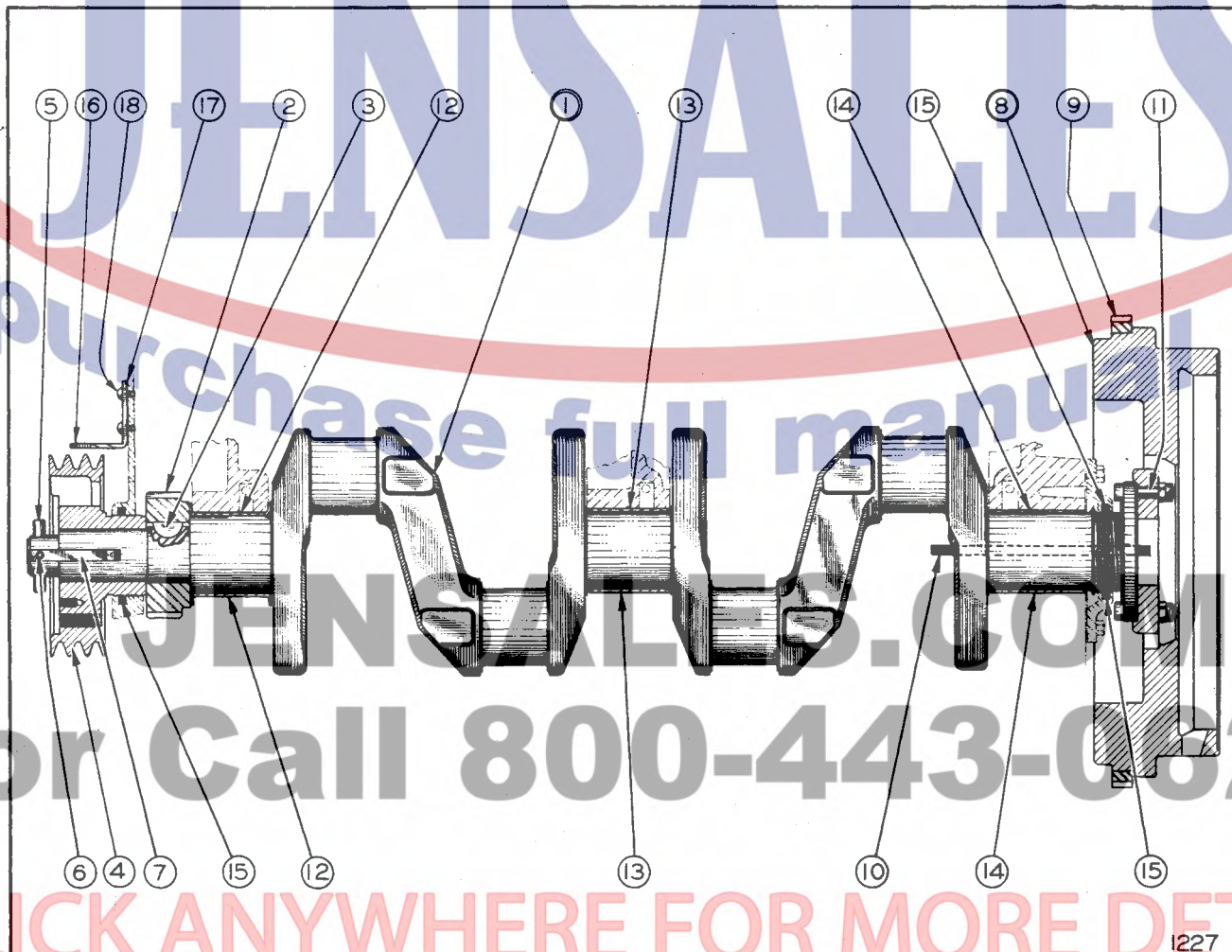


PLATE 2 - CRANKSHAFT AND FLYWHEEL

CRANKSHAFT AND FLYWHEEL
(See Plate 2)

Item	Part Number	Qty.	Name
1	281593	1	Crankshaft Exchange Group (Includes Items 2, 3, 10, 12, 13 & 14; also Main Bearing Shims)
2	205322	1	Crankshaft Gear 36 Teeth
3	905127	1	Woodruff Key "B"
4	207060	1	Fan Drive Pulley
5	AM-8804	1	Straight Pin
6	910214	1	Cup Point Set Screw 5/16" N.F. x 3/8"
7	904612	1	Straight Key 1/2" x 1/2" x 2"
8	208647	1	Flywheel with Ring Gear (Includes Item 9)
9	204340	1	Flywheel Ring Gear Only
10	U-3522	1	Oiling Wick for Clutch Pilot Bearing
	AM-8083	7	Flywheel Bolt
11	903556	7	Castle Nut 1/2" N.F.
	900802	7	Cotter Pin 3/32" x 1"
	205293	2	Main Bearing Shell - Front (Standard)
12	209006	2	Main Bearing Shell - Front (.025" Undersize)
	209005	2	Main Bearing Shell - Front (.050" Undersize)
	205335	2	Main Bearing Shell - Center (Standard)
13	209002	2	Main Bearing Shell - Center (.025" Undersize)
	209001	2	Main Bearing Shell - Center (.050" Undersize)
	205324	2	Main Bearing Shell - Rear (Standard)
14	209003	2	Main Bearing Shell - Rear (.025" Undersize)
	209004	2	Main Bearing Shell - Rear (.050" Undersize)
15	AM-8951	4	Crankshaft Oil Seal
16	207058	1	Timing Indicator
17	207059	1	Timing Indicator Gasket
18	912320	2	Self-Tapping Screw #10 x 1/2"
	209881	1	Main Bearing Shell Kit (Standard Size) (2 each 205293, 205324, 205335)
19	209947	1	Main Bearing Shell Kit (.025" Undersize) (2 each 209002, 209003, 209006)
	209948	1	Main Bearing Shell Kit (.050" Undersize) (2 each 209001, 209004, 209005)

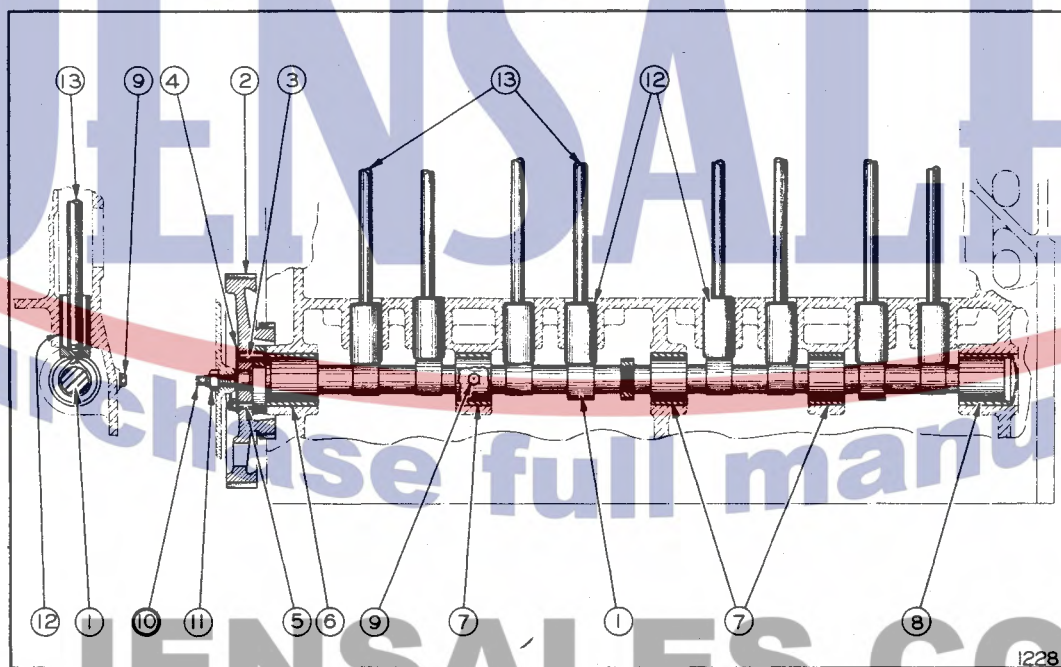


PLATE 3 - CAMSHAFT

CAMSHAFT
(See Plate 3)

1	205274	1	Camshaft
2	204370	1	Camshaft Gear 72 teeth
3	204441	1	Dowel
4	204440	1	Dowel Retainer
5	204442	5	Stud 3/8" x 1-27/32"
	904321	5	Castle Nut 3/8" N.F.
	206003	1	Lockwire 1/16" x 9"
6	E-2375	1	Camshaft Bushing - Front
7	205279	1	Camshaft Bushing - Center
8	AM-8201	1	Camshaft Bushing - Rear
9	AM-4759	5	Camshaft Bushing Set Screw
	904206	5	Lockwasher 3/8"
10	205807	1	Camshaft Thrust Screw Assembly (Consists of one screw; one plunger; one pin and one spring. Separate parts are not serviced.)
11	910124	1	Hex Nut 5/8" N.F.
12	AM-8746	8	Valve Tappets
13	208063	8	Push Rod

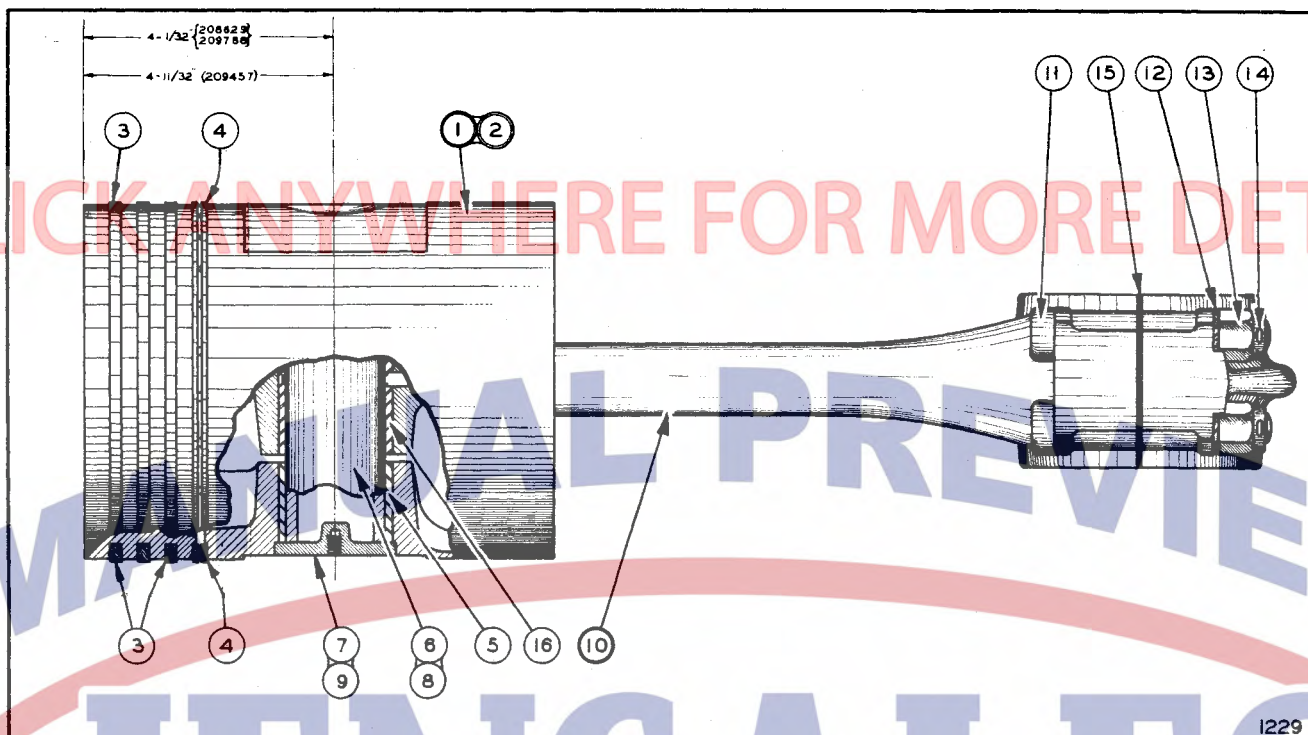


PLATE 4 - PISTON AND CONNECTING ROD

PISTON AND CONNECTING ROD
(See Plate 4)

Item	Part Number	Qty.	Name	
1	208629	4	Piston Assembly - Standard (Includes Items 5, 6 and 7. Discontinued on Engine #308)	Interchangeable in sets only
	209788	4	Piston Assembly - Standard (Includes Items 8 and 9. Effective with Engine #308)	
2	209457	4	Piston Assembly - High Altitude (Includes Items 8 and 9)	
3	204768	12	Piston Compression Ring 3/16" Wide	Also see item 17
4	205345	4	Piston Oil Ring 1/4" Wide	
5	205289	8	Piston Bushing	
6	207620	4	Piston Pin 5-1/4" long	Used in 208629 Piston Assembly only. Discontinued on Engine #308.
7	205270	8	Piston Pin Plug	
8	209505	4	Piston Pin 5-1/16" Long	Used in 209457 and 209788 Piston Assemblies
9	209504	8	Piston Pin Snap Ring	
10	280410	4	Connecting Rod - Complete (Includes Items 11 thru 16)	
11	AM-9630	16	Connecting Rod Bolt	
12	AM-9021	16	Connecting Rod Bolt Washer	
13	AM-5830	16	Castle Nut	
14	900802	16	Cotter Pin 3/32" x 1"	
15	205319	8	Connecting Rod Shim	
16	205271	4	Connecting Rod Bushing	
17	207691	1	Piston Ring Set (Consists of items 3 and 4)	

SPECIAL SERVICE OFFERS

In view of the removable sleeve construction of this engine, oversize Pistons or Rings are not supplied. When appreciable wear occurs, new standard parts should be installed. Owners may take advantage of the offers on the special Engine Repair Kits as listed below:

Repair Kit 281328
(Standard)

AM-41617
AM-9635
209788
204768
205345
205271

Repair Kit 281359
(High Altitude)

AM-41617
AM-9635
209457
204768
205345
205271

Qty.

4
8
4
12
4
4

Name

Cylinder Sleeve
Rubber Packing Ring
Piston Assembly
Piston Compression Ring
Piston Oil Ring
Connecting Rod Bushing

Oversize Piston Pins are not available and new standard pins and bushings should be supplied when appreciable wear occurs.

Used Connecting Rod Assemblies which have not been filed or ground on the contact surfaces and are otherwise free from tool marks, may be returned to the factory for credit to apply against the purchase of new Connecting Rods. Consult Repair Price List for the cost of this exchange. The amount of allowable credit is indicated under Part No. 207049. Old Rods should be returned under that number.

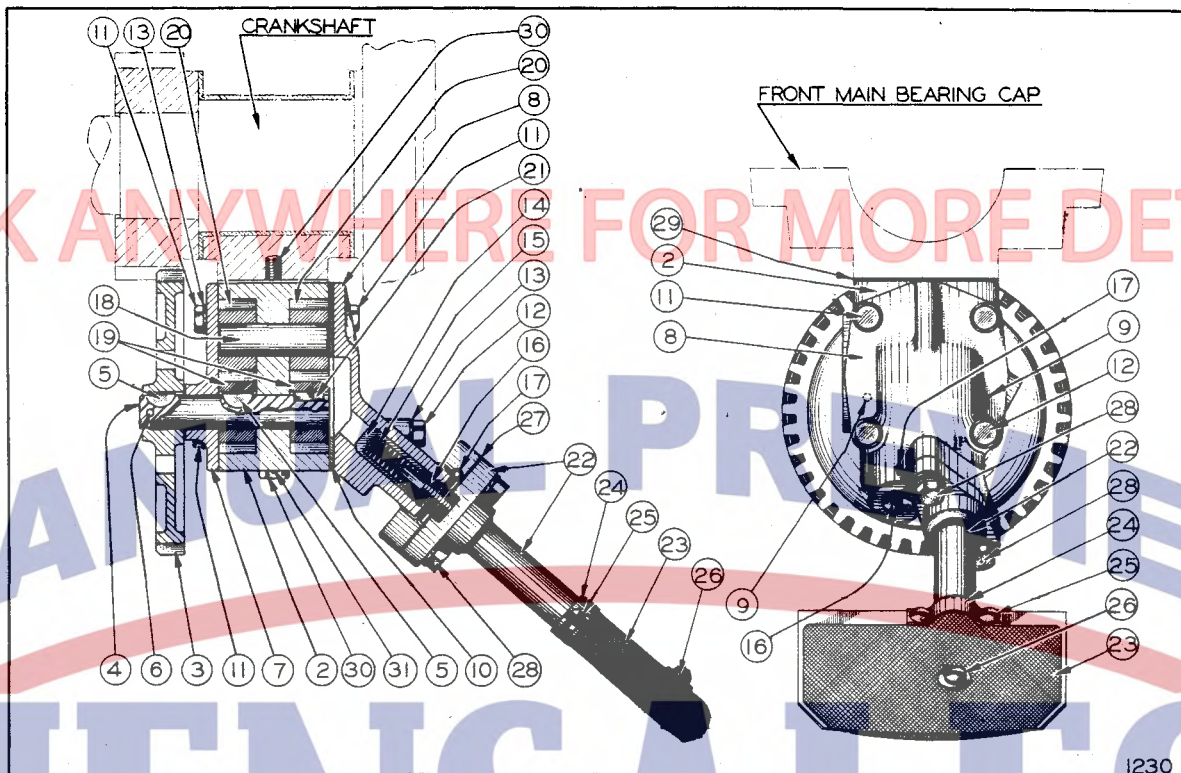


PLATE 5-OIL PUMP

OIL PUMP
(See Plate 5)

Item	Part Number	Qty.	Name
1	207681	1	Oil Pump Assembly (Consists of Items 2 thru 28)
2	205195	1	Oil Pump Body
3	AM-8778	1	Oil Pump Drive Gear 44 teeth
4	AM-9014	1	Oil Pump Drive Shaft
5	905122	2	Woodruff Key #7
6	AM-8295	1	Drive Gear Pin
7	AM-41155	1	Oil Pump Cover - Front
8	204634	1	Oil Pump Cover - Rear
9	901357	2	Taper Pin #0 x 3/4" (Dowels)
10	204342	1	Spacer Plate
11	903626	6	Hex Capscrew 5/16" N.F. x 3/4"
12	905666	2	Hex Capscrew 5/16" N.C. x 2-1/4"
13	904205	8	Lockwasher 5/16"
14	204636	1	Pressure Relief Plunger
15	204637	1	Pressure Relief Spring
16	AM-8306	1	Pressure Relief Adjusting Screw
17	900809	1	Cotter Pin 1/8" x 1-3/4"
18	AM-9013	1	Oil Pump Idler Shaft
19	205194	2	Oil Pump Gear 10 teeth - Keywayed
20	205193	2	Oil Pump Gear 10 teeth - Plain
21	910223	1	Straight Key 1/8" x 3/16" x 3/4"
22	205365	1	Oil Pump Suction Tube
23	209074	1	Oil Pump Screen (Discontinued on Engine #363. Not Serviced. Order 1 Screen 210007 and 2 Clamps 210006)
24	210007	1	Oil Pump Screen (Effective with Engine #363)
25	AM-8598	2	Oil Screen Clamp (Discontinued on Engine #363)
26	210006	2	Oil Screen Clamp - Half only (Effective with Engine #363)
27	900865	2	Stove Bolt 1/4" x 3/4" with Nut
28	904204	2	Lockwasher 1/4"
29	912764	1	Round Head Machine Screw 1/4" N.F. x 3/8"
30	900816	1	Plain Washer 1/4"
31	904204	1	Lockwasher 1/4"
32	204635	1	Flange Gasket
33	903631	2	Hex Capscrew 3/8" N.C. x 1-1/4"
34	904206	2	Lockwasher 3/8"
35	AM-8794	2	Shim .025" Thick
36	AM-8587	5	Shim .005" Thick
37	AM-8655	2	Capscrew 3/8" x 4-3/4"
38	205845	1	Lockwire 1/16" x 8"

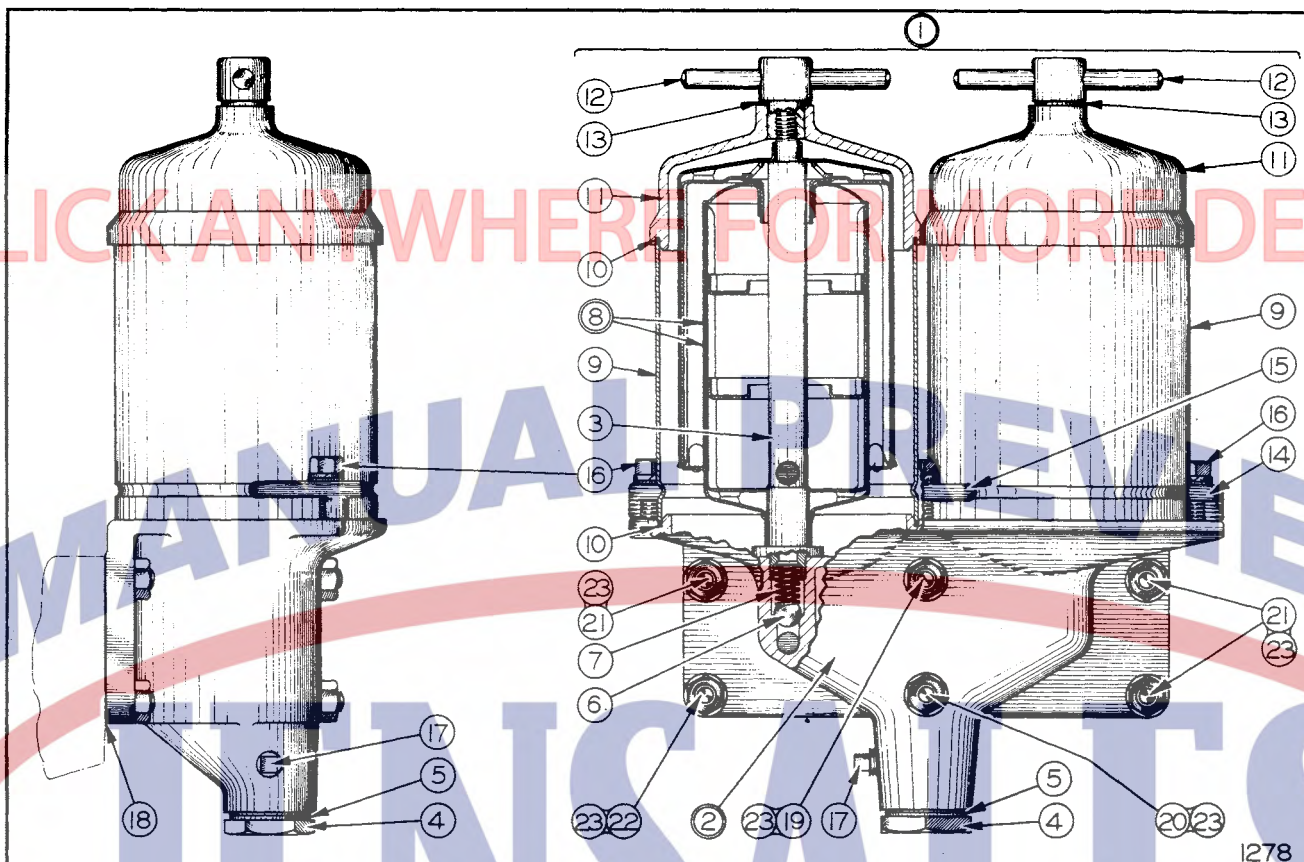


PLATE 6 - OIL FILTER

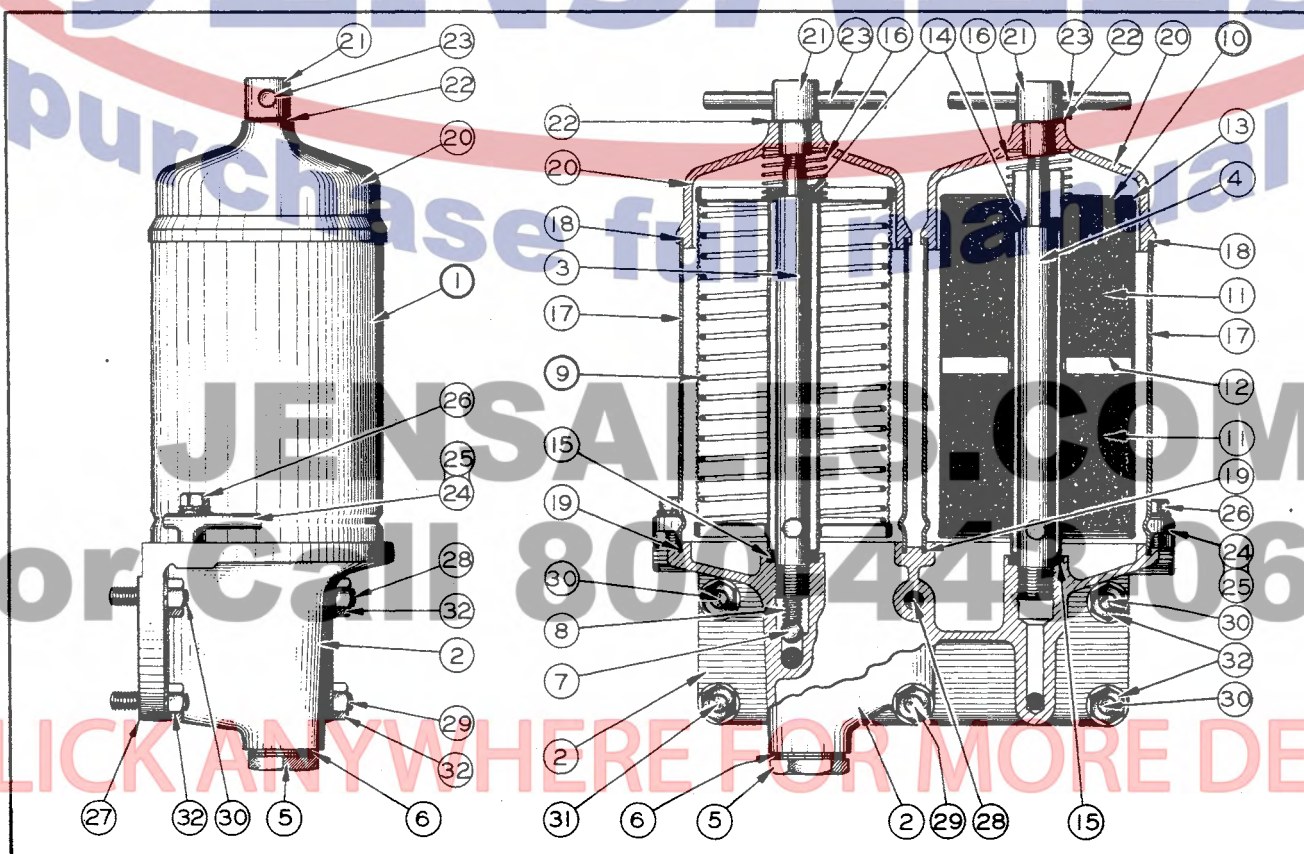


PLATE 1279 - OIL FILTER