Allis Chalmers H4 Hd4 Crawler Tractors Parts Catalog

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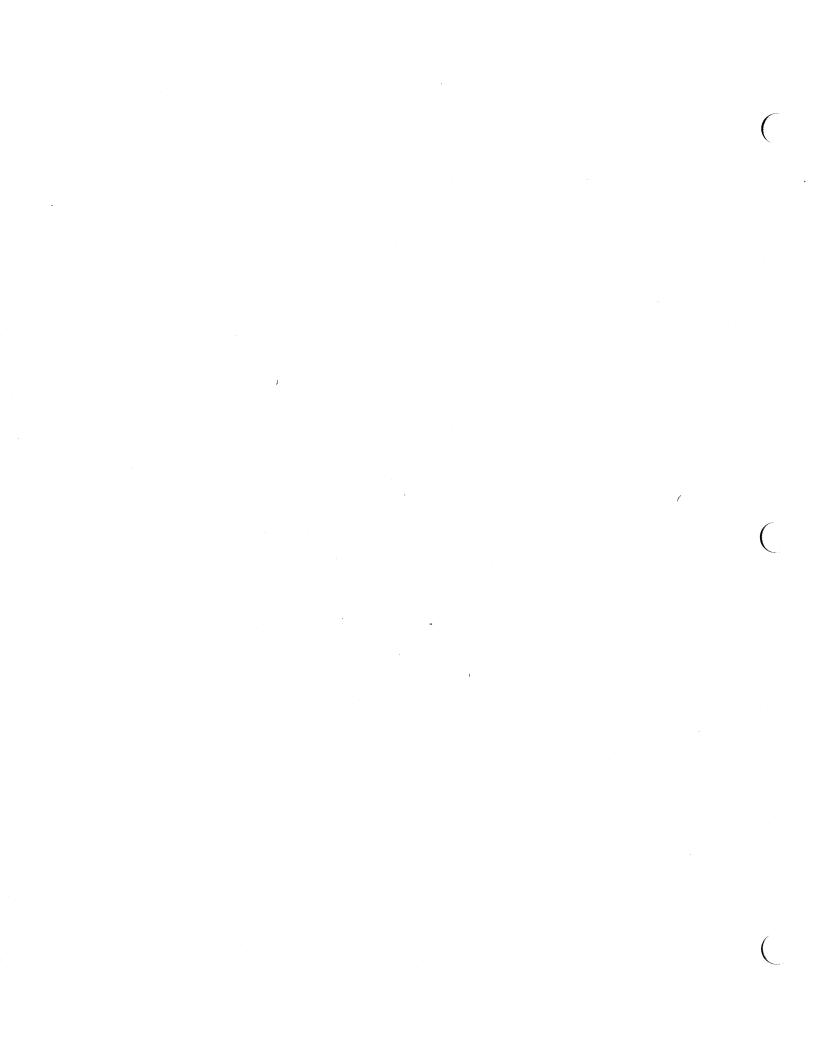
PARTS CATALOG

H-4 & HD-4 CRAWLER TRACTORS

LITHO U.S.A.

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FOREWORD

The parts in this catalog are listed in alphabetical order and are located at the front of this catalog.

Except for some common hardware all parts are identified with an item number. Common hardware not identified such as bolts, nuts, cotter pins and lubrication fittings, are listed in the text under the part which they attach or fit into. Note particularly that the quantity of hardware listed is always the quantity required for one part.

Common attaching hardware listed under a part is not included in the assembly or included with the part unless specified. Example: (Incl. Bolt, Lockwasher and Nut).

"Assembly or Packaged Parts" indicates if an individual part is one of many in a large assembly or one of several kinds in a package.

Order all parts for this machine from your local ALLIS-CHALMERS Dealer.

When ordering parts for this unit, supply the following information:

- 1. The tractor and engine serial numbers.
- 2. Fork Lift serial number. The Fork Lift serial number is located on the R.H. side of frame over final drive housing near brake pedals.

The Mast Serial number is located on inside of the bottom channel iron of mast assembly.

All numbers are listed in the second last section of this catalog showing the quantity and description of the various parts that make up the assembly or package.

The last section of this catalog contains a part number index to indicate on which page or pages a part number appears.

All illustrations will be found to Follow the text of each group or section of which it is a part.

For any additional copies of this catalog there will be a supplementing service charge of three dollars. Refer any requests to your Branch House or office under which you operate.

HOW TO ORDER PARTS

- 3. State the common name of the part you wish to order, or a description of the part and its location on the unit, or bring in old part.
- 4. Always print your name and post office address, where parts are to be shipped; also specify whether material is to be shipped by freight, express or parcel post.
- 5. When ordering parts always determine right hand and left hand from a position in the operators seat facing the direction of forward travel.

IMPORTANT

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.

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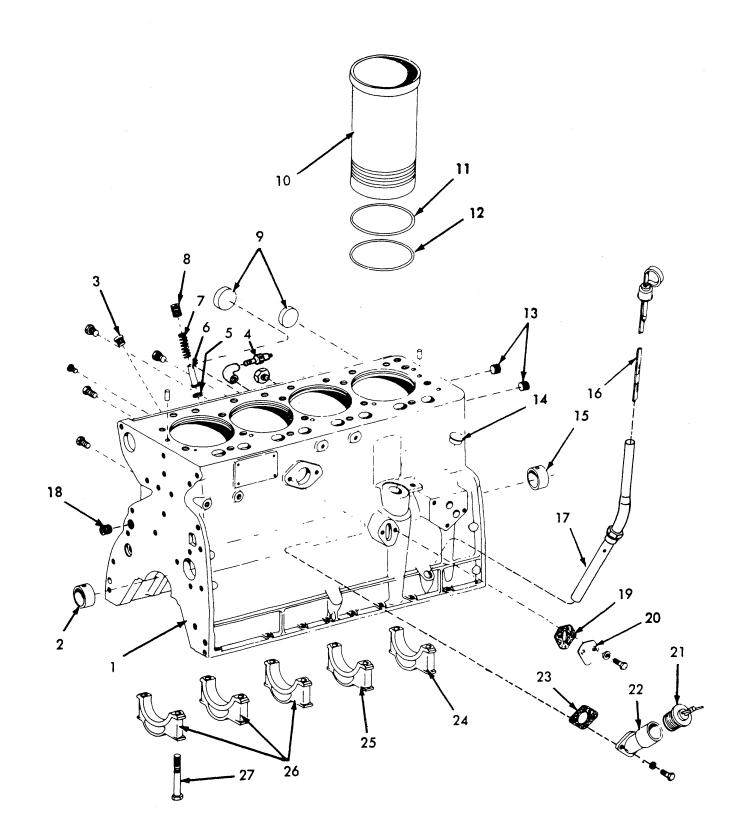
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| | DER BLOCK e & Diesel | | | (|
|----------|-------------------------|--------|--|----|
| ITEM | NUMBER | QTY. | DESCRIPTION | |
| 1 | 4023061-7 | 1 | BLOCK ASSY., cylinder (Incl. Items 2, 3, 5, 9, 13, 14, 14) 18, 24, 25, 26, 27 thru 30 & hardware below) 2 0919134-7 PLUG, pipe, 1/8 1 908944 PLUG, pipe, 1/2 1 0919840-9 PLUG, pipe, 1/4 1 0918850-9 PLUG, pipe, 1/4 1 0912415-7 COCK, drain, 1/4 2 0917547-2 PIN, dowel, 3/8 x 3/4 1 0915399-0 ELBOW, 90⁰, 1/8 | 5, |
| 2 | 4025025-0 | 1 | BEARING, camshaft, front (standard) | |
| | 4025259-5 | 1 | BEARING, camshaft, front (.010" u/s) | |
| 3 | 4362338 | 1 | PLUG, oil level gauge hole | |
| 4 | 4021445 | 1 | SWITCH, oil pressure | |
| 5 | 4507673-4 | 1 | INSERT, oil pressure relief valve | |
| 6 | 4507374 | 1 | PISTON, relief valve | |
| 7 | 4500231 | 1 | SPRING, relief valve | |
| 8 | 4022129 | 1 | SCREW, regulating valve | |
| 9 | 4255107-7 | 2 | PLUG, pipe | |
| 10 | 4023099 | 4 | SLEEVE, cylinder | |
| 11 | 4020537 | * | SHIM, cylinder sleeve (.005" thick) | |
| | 4020538 | * | SHIM, cylinder sleeve (.010" thick) | |
| | 4020539 | * | SHIM, cylinder sleeve (.015" thick) | |
| | 4020540 | | SHIM, cylinder sleeve (. 020" thick) | |
| | | * NOTE | : Use as required when remachining cylinder block. | |
| | | 4 | O-RING, cylinder sleeve (lower) | |
| 12 | 4023827-1 | 4 | O-RING, cylinder sleeve (lower) | |
| 13 | 4255492-3 | 2 | PLUG, pipe | |
| 14 | 4254452 | 1 | PLUG, expansion (for diesel only) | |
| 15 | 4025238-9 | 2 | BEARING, camshaft, center & rear (standard) | |
| | 4025258-7 | 2 | BEARING, camshaft, center & rear (.010" u/s) | |
| 16 | 4021612 | 1 | GAUGE, oil level | |
| 17 | 4021616 | 1 | ADAPTOR ASSY., oil level gauge | |
| 18 | 4025392 | 1 | PLUG, pipe $1/2$, $1/16$ hole | |
| 19 | 4025019 | 1 | GASKET, cover plate | |
| 20 | 4026383 | 1 | PLATE, fuel pump hole cover | |
| | | | 2 921332 CAPSCREW, 5/16NC x 3/4, Gr. 5 2 917365 WASHER, lock, 5/16 | |
| | | NOTE: | These parts, Items 19, 20 & hardware, not required when tractor is equipped with fuel pump. | |
| 21 22 | 4021711-9 4021498-3 | 1 | PLUG, oil filter (replaces 4385253) ELBOW, oil filler (replaces 4020512) 2 920415 CAPSCREW, 3/8NC x 1-1/4 2 916965 WASHER, lock 5/16 | |
| | | | 2 0922464-3 WASHER, plain | (|
| 23 | 4025021 | 1 | GASKET, elbow | |
| 24 | 4020382-0 | 1 | CAP, main bearing, rear (see Note) | |
| 25 | 4020381-2 | 1 | CAP, main bearing, intermediate (see Note) | |
| | | | - · · · · · | |

(Continued)

CYLINDER BLOCK Gasoline & Diesel



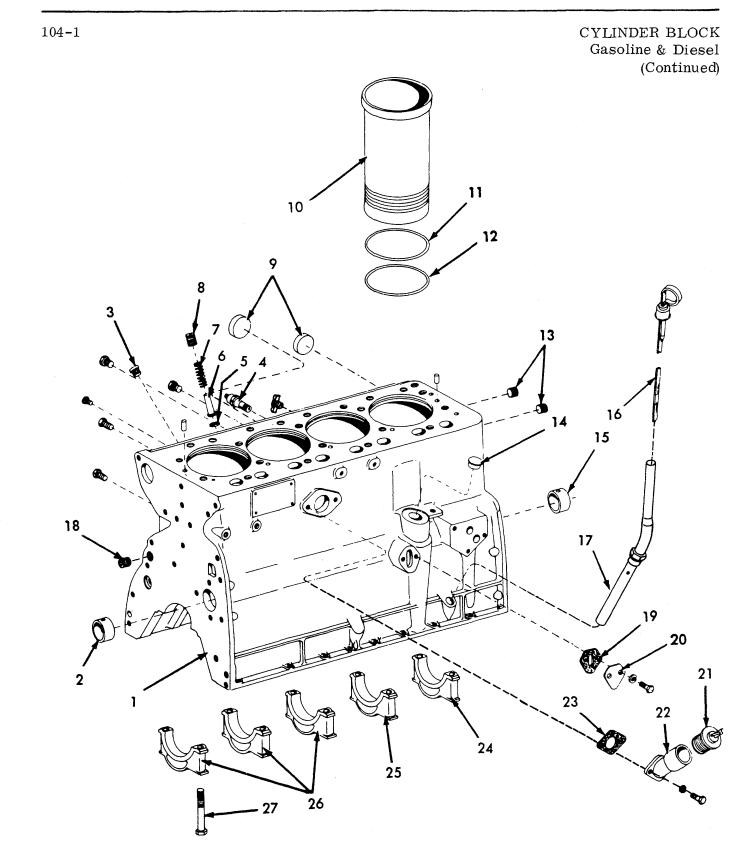
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CYLINDER BLOCK Gasoline & Diesel (Continued)

| ITEM | NUMBER | QTY. | DESCRIPTION |
|-----------------|------------------------|--------|--|
| $\frac{26}{27}$ | 4020380-4 4020135-2 | 310 | CAP, main bearing, front, intermediate & center (see Note) CAPSCREW, main bearing cap |
| | | NOTE: | Replacement bearing caps are semi-finished and must be line- bored after installing. |
| ASSEM | BLIES & PA | CKAGES | |

SSEMBLIES & PACKAGES

| 4390237 4022492 4022305 | 1 1 1 1 | PLATE, name (not shown) 4 904516 PIN, drive ENGINE ASSY., replacement, diesel (Discontinued) ENGINE ASSY., replacement, gasoline (Discontinued) |
|-----------------------------------|------------------|---|
| | NOTE: | Replacement engines do not include fans, generator, starting motor, air cleaner, clutch, carburetor, carburetor linkage, engine supports, crankshaft pulley, or flywheel. |
| 4021634 | · | SET, gasket (incl. Items 19 & 23) |
| 4021635 | | KIT, gasket (incl. Items 19 & 23) |
| 4022318 | | KIT, sleeve (gasoline) (incl. Items 10 & 12) |
| 4022979 | | KIT, sleeve (diesel) (incl. Items 10 & 12) |
| | | |



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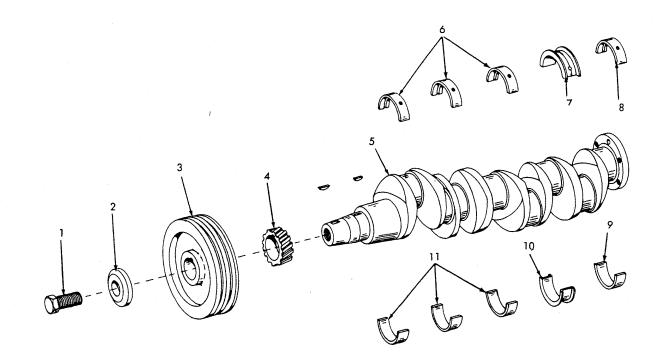
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| CRANKSHAFT | | | | |
|------------|---|--------|--|--|
| Gasoline | & | Diesel | | |

| ITEM | NUMBER | QTY. | DESCRIPTION |
|------|-----------|------|--|
| 1 | 4021525 | 1 | CAPSCREW |
| 2 | 4020149 | 1 | WASHER, capscrew |
| 3 | 4020246 | 1 | PULLEY |
| | | | 1 905845 KEY, woodruff, $1/4 \ge 7/8$ |
| 4 | 4022228 | 1 | GEAR, crankshaft |
| | | | 1 905845 KEY, woodruff, $1/4 \ge 7/8$ |
| 5 | 4022285 | 5 | CRANKSHAFT |
| 6 | 4022083 | 3 | BEARING, front, intermediate (upper) (standard) |
| | 4022094-9 | 3 | BEARING, front, intermediate (upper) (.002") (replaces 4020450) |
| | 4022095 | 3 | BEARING, front, intermediate (upper) (.010") |
| | 4022096 | 3 | BEARING, front, intermediate (upper) (.020") |
| | 4022098-0 | 3 | BEARING, front, intermediate (upper) (.040") (replaces 4020454) |
| 7 | 4022087 | 1 | BEARING, center (upper) (standard) |
| | 4022114-5 | 1 | BEARING, center (upper) (.002") (replaces 4020470) |
| | 4022115 | 1 | BEARING, center (upper) (.010") |
| | 4022116 | 1 | BEARING, center (upper) (.020") |
| | 4022118-6 | 1 | BEARING, center (upper) (.040") (replaces 4020474) |
| 8 | 4022085 | 1 | BEARING, rear (upper) (standard) |
| | 4022104-6 | 1 | BEARING, rear (upper) (.002") (replaces 4020460) |
| • | 4022105 | 1 | BEARING, rear (upper) (.010") |
| | 4022106 | 1 | BEARING, rear (upper) (.020") |
| | 4022108-7 | 1 | BEARING, rear (upper) (.040") (replaces 4020464) |
| 9 | 4022086 | 1 | BEARING, rear (lower) (standard) |
| | 4022109-5 | 1 | BEARING, rear (lower) (.002") (replaces 4020465) |
| | 4022110 | 1 | BEARING, rear (lower) (.010") |
| | 4022111 | 1 | BEARING, rear (lower) (.020") |
| | 4022113-7 | 1 | BEARING, rear (lower) (.040") (replaces 4020469) |
| 10 | 4022088 | 1 | BEARING, center (lower) (standard) |
| | 4022119-4 | 1 | BEARING, center (lower) (.002") (replaces 4020475) |
| | 4022120 | 1 | BEARING, center (lower) (.010") |
| | 4022121 | 1 | BEARING, center (lower) (.020") |
| | 4022123-6 | 1 | BEARING, center (lower) (.040") (replaces 4020479) |
| 11 | 4022084 | 3 | BEARING, front, intermediate (lower) (standard) |
| | 4022099-8 | 3 | BEARING, front, intermediate (lower) (.002") (replaces 4020455) |
| | 4022100 | 3 | BEARING, front, intermediate (lower) (.010") |
| | 4022101 | 3 | BEARING, front, intermediate (lower) (.020") |
| | 4022103-8 | 3 | BEARING, front, intermediate (lower) (. 040") (replaces 4020459) |
| | | | |

CRANKSHAFT Gasoline & Diesel



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| | |

PISTON & CONNECTING ROD Gasoline

| ITEM | NUMBER | QTY. | DESCRIPTION |
|------|-----------|------|--|
| 1 | 4020142 | 8 | CAPSCREW, connecting rod |
| 2 | 4020145 | 8 | WASHER, flat, capscrew |
| 3 | 4022233-8 | 4 | ROD ASSY., connecting (incl. Items 1, 2, & 7) |
| 4 | 4022082-8 | 8 | BEARING, connecting rod (standard) |
| | 4022089-9 | 8 | BEARING, connecting rod (.002") |
| | 4022090-7 | 8 | BEARING, connecting rod (.010") |
| | 4022091-5 | 8 | BEARING, connecting rod (. 020'') |
| | 4022092-3 | 8 | BEARING, connecting rod (.030'') |
| | 4022093-1 | 8 | BEARING, connecting rod (.040") |
| 5 | 4020739 | 4 | PIN, piston |
| 6 | 4253059 | 8 | RETAINER, piston pin |
| 7 | 4020049 | 4 | BUSHING, connecting rod |
| 8 | 4021796 | 4 | RING SET, piston (incl. 1 Top Ring, 2 Rings 2nd & 3rd & 1 three piece Oil Control Ring) |
| 9 | 4022313 | 4 | PISTON |

ASSEMBLIES & PACKAGES

-- 4022318

KIT, sleeve (incl. Items 5, 6, 8, & 9)

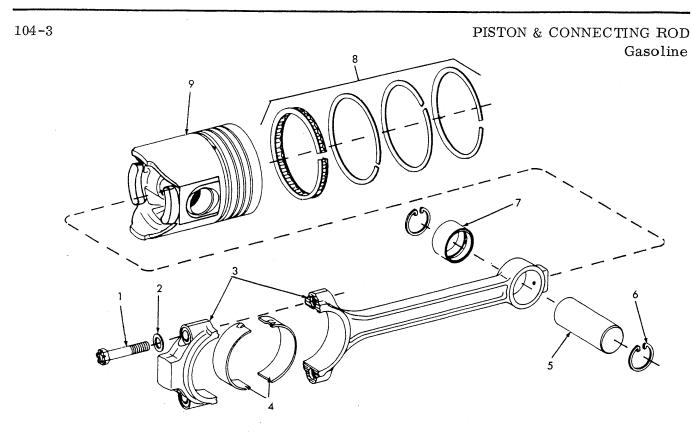
PISTON & CONNECTING ROD

Diesel

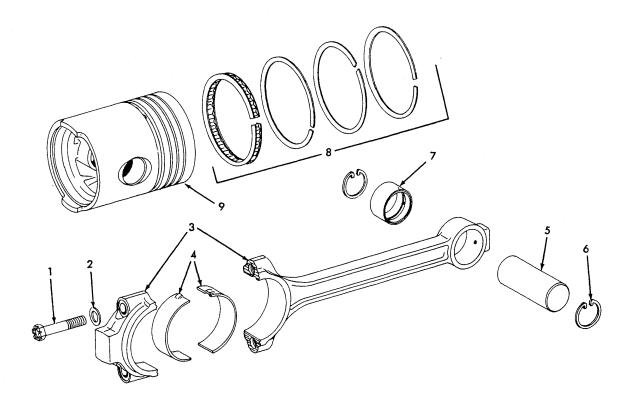
| ITEM | NUMBER | QTY. | DESCRIPTION |
|------|-----------|------|--|
| | | | |
| 1 | 4020142 | 8 | CAPSCREW, connecting rod |
| 2 | 4020145 | 8 | WASHER, flat, capscrew |
| 3 | 4022233 | 4 | ROD ASSY., connecting (incl. Items 1, $2, \& 7$) |
| 4 | 4022082 | 8 | BEARING, connecting rod (standard |
| | 4022089-9 | 8 | BEARING, connecting rod (.002") |
| | 4022090-7 | 8 | BEARING, connecting rod (.010'') |
| | 4022091-5 | 8 | BEARING, connecting rod (. 020'') |
| | 4022092-3 | 8 | BEARING, connecting rod (.030") |
| | 4022093-1 | 8 | BEARING, connecting rod (.040'') |
| 5 | 4020739 | 4 | PIN, piston |
| 6 | 4253059 | 8 | RETAINER, piston pin |
| 7 | 4020049 | 4 | BUSHING, connecting rod |
| 8 | 4021796 | 4 | RING SET, piston (incl. 1 Top Ring, 2 Rings 2nd & 3rd, & |
| | | | 1 three piece Oil Control Ring) |
| 9 | 4023926-1 | 4 | PISTON (replaces 4022958) |

ASSEMBLIES & PACKAGES

-- 4022979 -- KIT, sleeve (incl. Items 5, 6, 8, & 9)



PISTON & CONNECTING ROD Diesel



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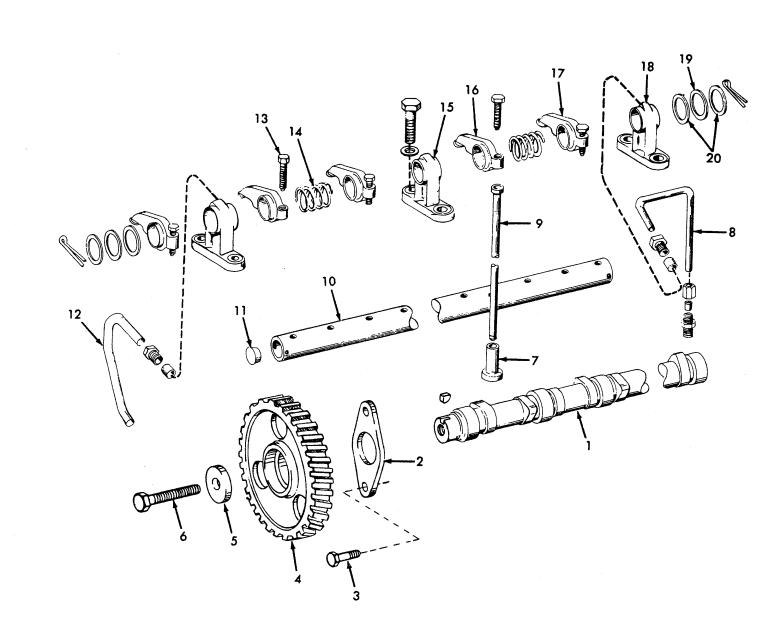
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VALVE OPERATING MECHANISM Gasoline

| ITEM | NUMBER | QTY. | DESCRIPTION |
|------|-----------|------|---|
| 1 | 4022459 | 1 | CAMSHAFT |
| 2 | 4021454 | 1 | PLATE, thrust |
| 3 | 4254864 | 2 | BOLT, place |
| 4 | 4022292-9 | 1 | GEAR, camshaft (prior to SN2G-07615) (replaces 4022229) |
| | 4022458 | 1 | GEAR, camshaft (eff. w/SN2G-07615 & up) |
| | | | 1 4022430 KEY |
| 5 | 4022339 | 1 | WASHER |
| 6 | 0925821 | 1 | CAPSCREW, $7/16$ NC x 4 |
| 7 | 4026699 | 8 | LIFTER, valve |
| 8 | 4020683 | 1 | TUBE, oil feed |
| | | | 2 911435 SLEEVE, $1/4$ |
| | | | 1 913536 NUT, inverted flared, 1/4 |
| | | | 1 914626 CONNECTOR, male, $1/4 \ge 1/8$ |
| | | | 1 911437 NUT, inverted flared, $1/4$ |
| 9 | 4020185 | 8 | ROD, push |
| 10 | 4021453 | 1 | SHAFT, rocker arm |
| | | | 2 925719 PIN, cotter, $1/8 \ge 2$ |
| 11 | 4512644 | 2 | PLUG, shaft |
| 12 | 4020359 | 1 | TUBE, oil drain |
| | | | 1 911435 SLEEVE, $1/4$ |
| | | | 1 913536 NUT, inverted flared, $1/4$ |
| 13 | 4513206-5 | 8 | SCREW, adjusting |
| 14 | 4025191 | 3 | SPRING, spacer, center |
| 15 | 4020307 | 2 | BRACKET, rocker arm, intermediate |
| | | | $2 \qquad 921333 \qquad \text{CAPSCREW}, \ 5/16\text{NC x 1}$ |
| | | | 2 917356 WASHER, lock 5/16 |
| 16 | 4020177 | 4 | ARM ASSY., rocker (Off-set to left) (incl. Item 14) |
| 17 | 4020176 | 4 | ARM ASSY., rocker (Off-set to right) (incl. Item 14) |
| 18 | 4020308 | 2 | BRACKET, rocker arm (end) |
| 19 | 4025193 | 2 | SPRING, washer spacing (end) |
| 20 | 4025194 | 4 | WASHER, spacing (end) |

VALVE OPERATING MECHANISM Gasoline

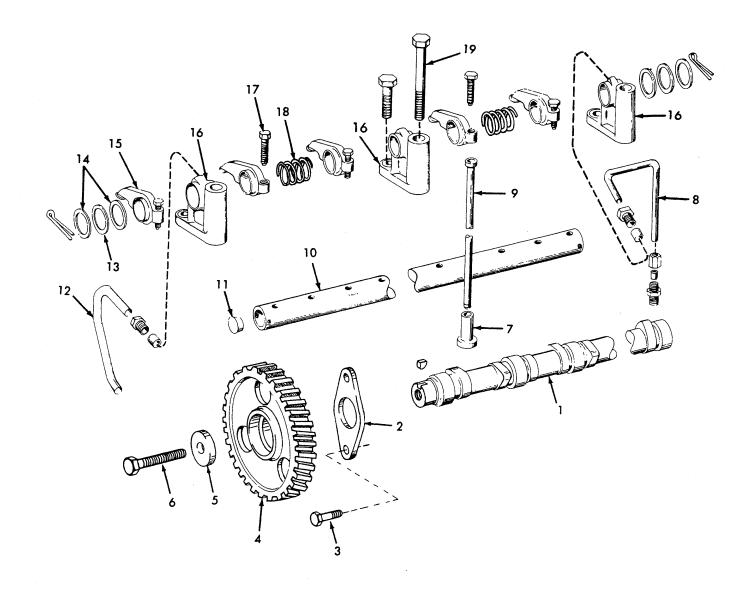


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| VALVE Diesel | OPE RATINO | G MECHA | NISM |
|-----------------|------------|---------|---|
| ITEM | NUMBER | QTY. | DESCRIPTION |
| 1 | 4022458 | 1 | CAMSHAFT |
| 2 | 4021454 | 1 | PLATE, thrust |
| 3 | 4254864 | 2 | BOLT, place |
| 4 | 4024459 | 1 | GEAR, camshaft (prior to SN 2D-18297) |
| | 4022292 | 1 | GEAR, camshaft (eff. SN 2D-18297 & up) 1 4022430 KEY |
| 5 | 4022339 | 1 | WASHER |
| 6 | 0925821 | 1 | CAPSCREW, $7/16 \ge 4$ |
| 7 | 4026699 | 8 | LIFTER, valve |
| 8 | 4020683 | 1 | TUBE, oil feed |
| | | | 2 911435 SLEEVE, 1/4 1 913536 NUT, inverted flared, 1/4 1 914626 CONNECTOR, male, 1/4 x 1/8 1 911437 NUT, inverted flared, 1/4 |
| 9 | 4020185 | 8 | ROD, push |
| 10 | 4021453 | 1 | SHAFT, rocker arm 2 925719 PIN, cotter, 1/8 x 1-3/8 |
| 11 | 4512644 | 2 | PLUG, shaft, rocker arm |
| 12 | 4020359 | 1 | TUBE, oil drain |
| | | _ | 1 913536 NUT, inverted flared, 1/4 1 911435 SLEEVE, 1/4 |
| 13 | 4025193 | 2 | WASHER, spring (end) |
| 14 | 4025194 | 4 | WASHER, spacer (end) |
| 15 | 4025188 | 8 | ARM ASSY., rocker (incl. Item 17) |
| 16 | 4020143 | 4 | BRACKET, rocker arm (end) 1 919224 CAPSCREW, 3/8NC x 1-1/8 1 916965 WASHER, lock, 3/8 |
| 17 | 4513206-5 | 8 | SCREW, adjusting, rocker arm |
| 18 | 4025191 | 3 | SPRING, rocker arm, spacing |
| 19 | | 4 | CAPSCREW, bracket (see Cylinder Head Group) |

VALVE OPERATING MECHANISM Diesel



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Allis Chalmers H4 Hd4 Crawler Tractors Parts Catalog

Full download: http://manualplace.com/download/allis-chalmers-h4-hd4-crawler-tractors-parts-catalog/

| CYLIN Gasolir | DER HEAD ne | | | (|
|------------------|--------------------|---------------|---|---|
| ITEM | NUMBER | QTY. | DESCRIPTION | |
| 1 | 4022897-5 | 1 | GASKET, cylinder head (prior to S/N 2G–09490) | |
| | 4021825-7 | 1 | GASKET, cylinder head (Inc. S/N 2G–09490 & up) | |
| 2 | 4020080 | 4 | VALVE, intake | |
| 3 | 4020082 | 4 | VALVE, exhaust | |
| 4 | 4020147 | * | INSERT, intake valve (1.6105''to 1.6115''OD) (Intake seat inserts are not original equipment - requires remachining of cylinder head) | |
| 5 | 4020146 | 4 | INSERT, exhaust valve (standard) | |
| | 4020536 | * | INSERT, exhaust valve $(.005'' \text{ o/s})$ | |
| 6 | 4022649 | 1 | HEAD ASSY., cylinder (incl. Items 4, 5, 7, & plugs) 3 918851 PLUG, pipe, 3/4NPTF | |
| 7 | 4022595 | 8 | GUIDE, intake & exhaust | |
| 8 | 4020156 | 8 | SPRINGS, intake & exhaust | |
| 9 | 4020419 | 4 | ROTATOR, exhaust valve | |
| 10 | 4020408 | 4 | RETAINER, spring, intake valve | |
| 11 | 4376497 | 16 | LOCK, half, valve spring relainer | |
| 12 | 4020317 | 1 | GASKET, cylinder head cover | |
| 13 | 4022081 | 1 | COVER, cylinder head | |
| 14 | 4153776 | 6 | CAPSCREW, cover, cylinder head | |
| 15 | 4025491 | 6 | WASHER, capscrew, cylinder head cover | (|
| 16 | 4029256-7 | 17 | CAPSCREW, cylinder head (replaces 4025164) | Ĺ |
| 17 | 4025165 | 17 | WASHER, capscrew | |
| $\frac{18}{19}$ | 402,0813 | 2 | EYE, lifting | |
| 19 | 244819 | 1 | BRACKET, tube 1 903771 CAPSCREW, $5/6NC \ge 7/8$ | |
| | | | 1 917356 WASHER, lock, $5/16$ | |
| 20 | 4020494 | 1 | ELBOW, trailer tube | |
| $\frac{20}{21}$ | 4020434 4254757 | $\frac{1}{2}$ | CLAMP, elbow | |
| 22 | 247288 | 1 | TUBE, breather trailer | |
| 23 | 4303933 | 1 | CLIP, by-pass tube | |
| , | • • | | 1 903626 CAPSCREW, 5/16NC x 3/4 1 917356 WASHER, lock, 5/16 | |

917372

CLIP, trail tube (not shown)

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ASSEMBLIED & PACKAGES

4022948-6 4021851-3 KIT, gasket (incl. Items 1 & 12) (Prior to S/N 2G-09490) KIT, gasket (incl. Items 1& 12) (incl. S/N 2G-09490 & up)

NUT, 5/16NC

* Use as required

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