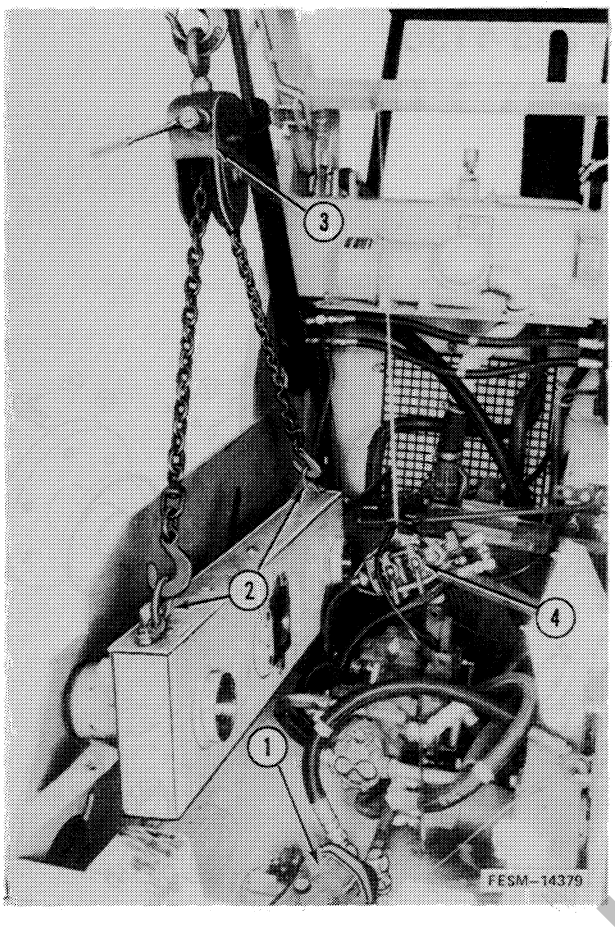
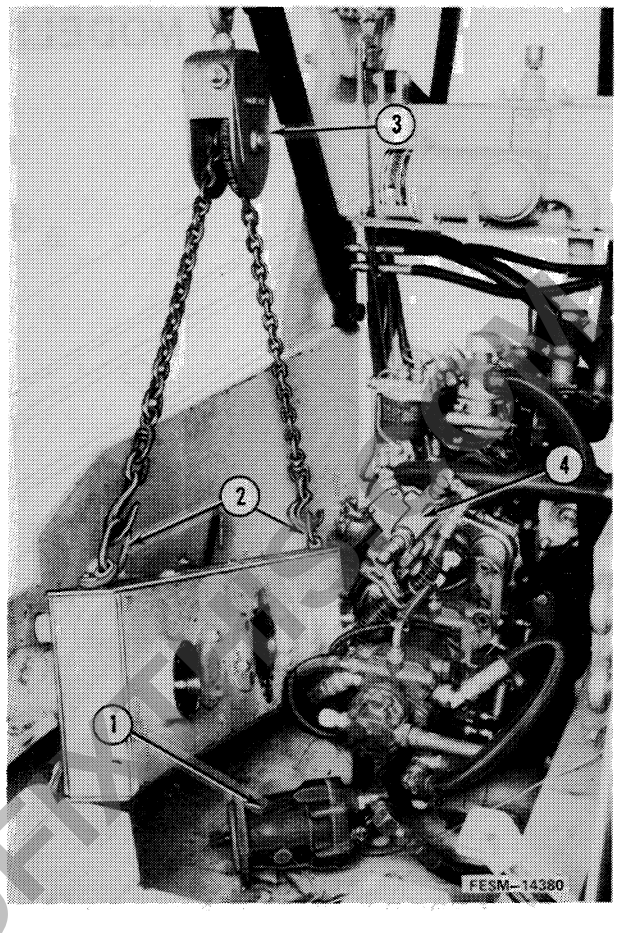
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4135



4136

1. Hydro motor
2. 17-100-3 Mounting bracket
3. 17-100-2 Load leveler
4. Control valve

12. Remove the drive case mounting bolts. Attach 17-100-3 Lifting Brackets and 17-100-2 Load Leveler to the top of the drive case. Using an overhead hoist lift out the drive case.

NOTE: If the hydrostatic pump hoses interfere with wheel case clearance they may be disconnected. Plug the hoses if disconnected.

Disassembly and Reassembly

(Refer to the line drawing on page 4-18 for disassembly and reassembly.)

Installation

Installation is the reverse of removal.

1. Use General Electric Silicone Gasket Sealant on the axle caps, hydrostatic motors and wheel case covers.

2. Refer to Section 7 for linkage adjustment and Section 8 for emergency brake adjustment.

3. Torque the 4135 and 4136 axle nuts from 108 to 122 N·m (80 to 90 ft. lbs.).

4. Torque the wheel bolts from 122 to 135 N·m (90 to 100 ft. lbs.).

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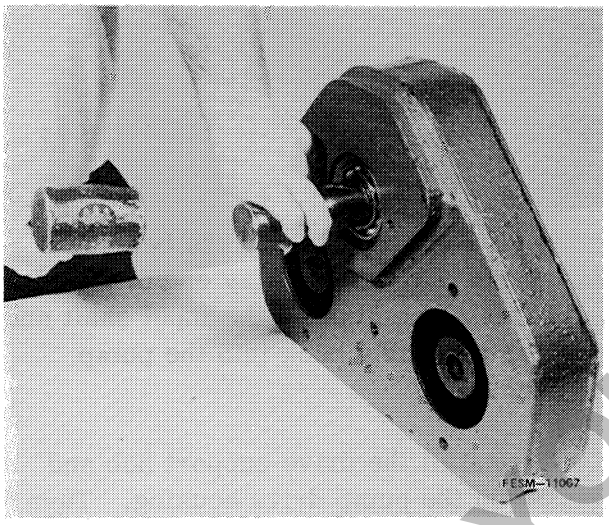
Removal

Remove the engine. (See Section 2.)

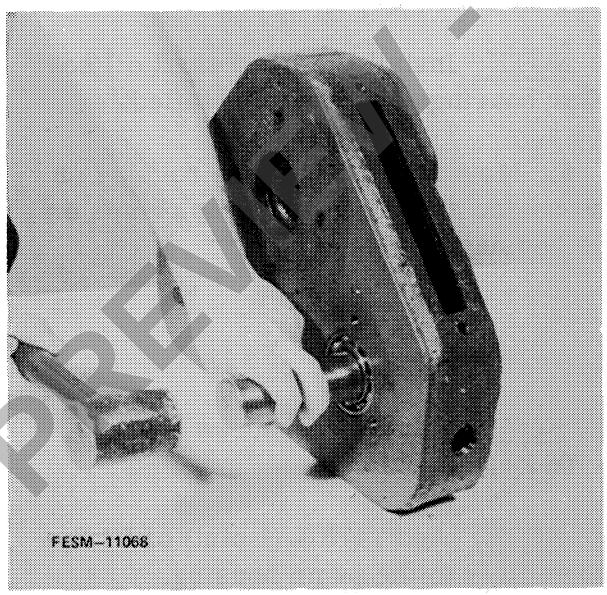
Disassembly

1. Drain the pump drive housing and remove the hydrostatic pumps.

2. Remove the pump housing.



Removing the input shaft



Removing the pinion gear hub

3. Remove the setscrews (2) from the drive coupling on the pump housing input shaft.

4. Remove the pump drive support hub from the pump drive housing.

NOTE: Note the support hub oil seal.

5. Remove the oil dipstick pipe, pump housing cover and the bearing caps.

6. Using a brass drift, tap out the pump housing input shaft and the pinion gear hubs. Then remove the pinion and input gears through the access opening.

NOTE: Note the location of the input shaft spacer and the washers for proper reassembly.

Inspection

Flush out the pump drive housing. Scrape all gasket surfaces clean. Clean and inspect all component parts and replace worn or damaged parts.

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STANDARD TORQUE DATA FOR NUTS AND BOLTS— FOOT POUNDS

Recommended torque for all Standard Application Nuts and Bolts, provided:

A. All thread surfaces are clean and lubricated with SAE-30 engine oil. (See NOTE.)

B. Joints are rigid, that is, no gaskets or compressible materials are used.

C. When reusing nuts or bolts use minimum torque values.

NOTE: Multiply the standard torque by:

.65 when finished jam nuts are used.
.70 when Molykote, white lead or similar mixtures are used as lubricants.
.75 when parkerized bolts or nuts are used.
.85 when cadmium plated bolts or nuts and zinc bolts w/waxed zinc nuts are used.
.90 when hardened surfaces are used under the nut or bolt head.

1 FOOT POUND = 1.355 NEWTON METERS

Bolt or Stud Diameter		Type 1 Studs Only		Type 1 Bolts 6" length or less		Type 1 Bolts longer than 6"		Type 5 (all lengths)		Type 8 (all lengths)			
										Only when used† in cast (gray) iron		All other applications	
Inches	MM	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.4	5	6	5	6	3	3	9	10	11	13	12	14
5/16	8.0	12	13	12	13	6	7	19	21	24	27	27	30
3/8	9.5	21	24	21	24	11	13	33	37	43	47	45	50
7/16	11.1	35	38	35	38	19	21	53	60	69	76	75	85
1/2	12.7	52	58	52	58	29	32	80	90	104	117	115	130
9/16	14.3	70	80	70	80	41	46	115	130	150	170	165	185
5/8	15.9	98	110	98	110	57	63	160	180	210	230	220	250
3/4	19.0	174	195	174	195	100	112	290	320	350	390	400	450
7/8	22.2	300	330	162	181	162	181	420	470	570	630	650	730
1	25.4	420	470	250	270	250	270	630	710	850	950	970	1090
1-1/8	28.6	600	660	350	380	350	380	850	950	1200	1350	1380	1550
1-1/4	31.8	840	940	490	540	490	540	1200	1350	1700	1900	1940	2180
1-3/8	34.9	1100	1230	640	710	640	710	1570	1760	2300	2500	2600	2800
1-1/2	38.1	1470	1640	850	940	850	940	2000	2300	3000	3300	3300	3700
1-3/4	44.5	2350	2450	1330	1490	1330	1490	3300	3700	4700	5200	5300	6000
2	50.8	3500	3900	2000	2200	2000	2200	5000	5500	7000	7800	8000	9000

†When bolt penetration is 1-1/2 times the diameter of the bolt.

BOLT TYPE IDENTIFICATION CHART

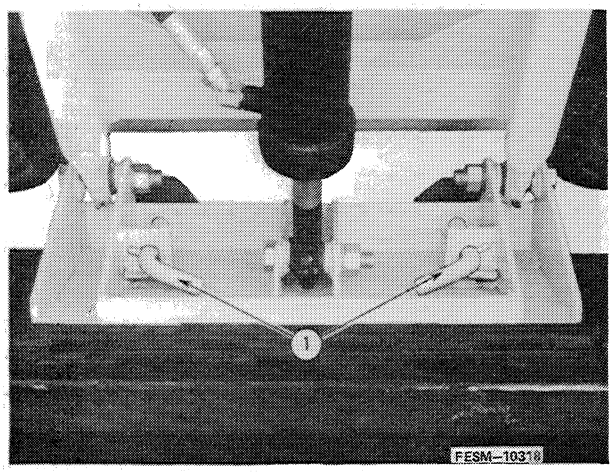
IH TYPE	S.A.E. GRADE	DESCRIPTION	BOLT HEAD MARKING *
1	(equivalent) 1 or 2	WILL HAVE A IH STANDARD MONOGRAM IN THE CENTER OF THE HEAD Low or Medium Carbon Steel Not Heat Treated	
5	5	WILL HAVE A IH AND 3 RADIAL LINES Quenched and Tempered Medium Carbon Steel	
8	8	WILL HAVE A IH AND 6 RADIAL LINES Quenched and Tempered Special Carbon or Alloy Steel	

*The center marking identifies the bolt manufacturer. The IH monogram is currently used. Some bolts may still have an IH or a raised dot which previously identified IH bolts.

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MODEL 4120

Bucket



1. Locking pins

Removal

1. Lower the loader and bucket to the ground.

2. Unlock the locking pins from the bottom of the bucket platten to free the bucket.

3. Start the engine, tilt the bucket platten forward and pull away from the bucket.

Installation

Installation is the reverse of the removal procedure.

ROPS

Removal

1. Lower the loader and bucket.

2. Secure slings around the ROPS and attach to a hoist.

3. Remove the ROP mounting bolts and lift off the ROPS.

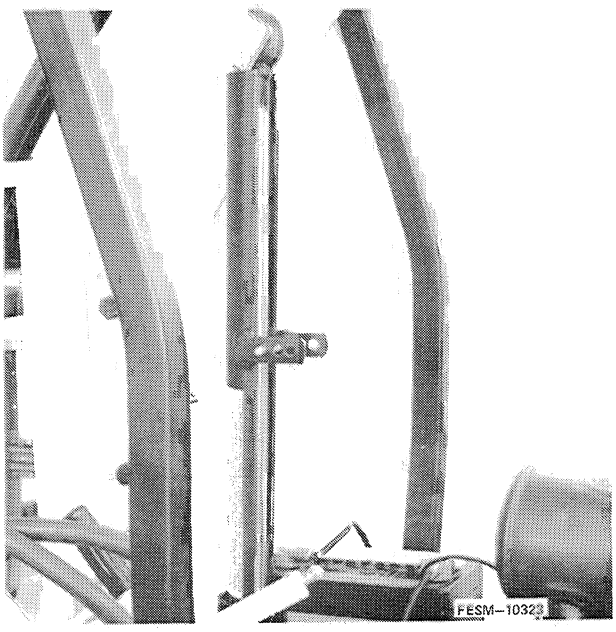
Installation

Installation is the reverse of the removal procedure.

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Hydraulic Pump



Lockout support brace

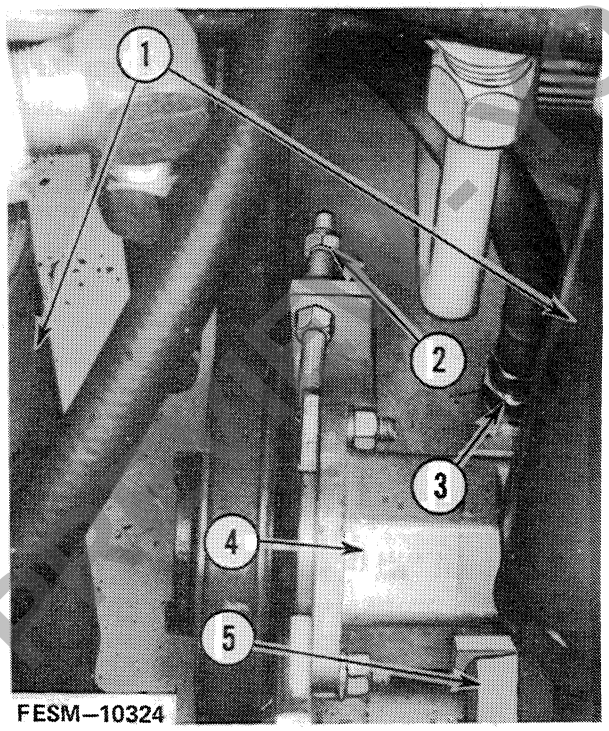
Removal

1. Start the engine, raise the boom and attach the safety brace. Stop the engine and relieve the residual pressure in the system.

2. Drain the right hand wheel drive reservoir through the plug located on the underside of the chassis near the rear of the reservoir

3. Remove the hood from the chassis.

4. Remove the two hydraulic filters.



5. Disconnect and cap the fluid lines and fittings on the pump.

6. Loosen the belt tightening bolt. Remove the pivot bolt on the floor plate holding bracket to the chassis. Remove the pump.

1. Filter element
2. Belt tightening bolt
3. Outlet hose
4. Pump
5. Inlet hose

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MODEL 4120

Engine Specifications

KOHLER (K341A)

Displacement	0.57 litre (35.89 cu. in.)
Horsepower @ 3200 rpm	16 hsp.
No. of Cylinders	1
Bore	95.2 mm (3-3/4 in.)
Stroke	82.5 mm (3-1/4 in.)
Compression Pressure	758-827 kPa (110-120 psi)
Oil Capacity	1.4 litre (3 pints)
Valve Lash (Cold)	
Intake	0.203-0.254 mm (0.008-0.010 in.)
Exhaust	0.432-0.508 mm (0.017-0.020 in.)
Point Gap	.432 to .610 mm (.017 to .024 in.)
Timing (BTDC)	20^{o}
Spark Plug Gap (14 mm plug)	.889 mm (.035 in.)
Engine Idle (High/Low)	3200/1800 rpm
Spark Plug Torque	27 N·m 20 ft. lbs.
Recommended Oil Type	IH Low Ash (SAE 30)

NOTE: Refer to GSS-1465-1 Engine, Fuel & Electrical Systems (Kohler) for complete specifications and service procedures.

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Chassis 4120, 4125, 4130, 4135 4136, 4140, 4150 and 4155 Compact Loaders

Service Manual

GSS- 1476-2

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CASE

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General Contents

Page

Safe Work Rules IV
Standard Torque Data for Nuts and Bolts VI
Metric Conversion Tables VIII
Standard Torque Data for Hydraulic Tubes and Fittings X

1 ROPS PROTECTIVE FRAME - LOADER

2 ENGINE

3 PUMP DRIVE HOUSING

4 WHEEL DRIVE CASE

5 HYDRAULIC SYSTEM

6 HYDROSTATIC DRIVE

7 LINKAGE AND SEAT ADJUSTMENT

8 BRAKES

9 ELECTRICAL SYSTEMS

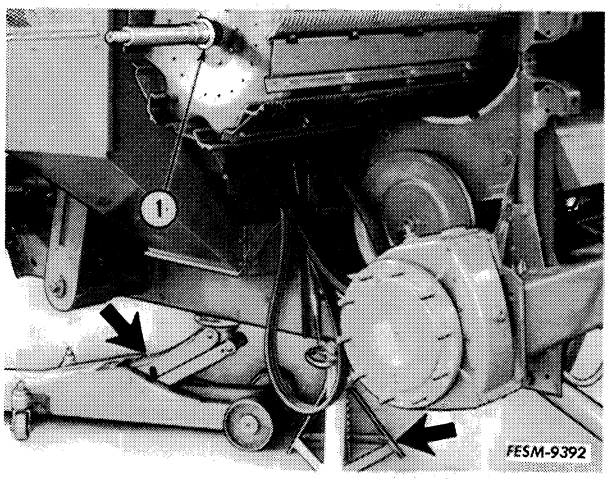
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WORK SAFELY – FOLLOW THESE RULES

This symbol is used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.

1. To prevent injury, do not allow children or by-standers around the machine while it is being adjusted and/or serviced.



2. Always use safety stands in conjunction with hydraulic jacks or hoists. Do not rely on the jack or hoist to carry the load, they could fail.

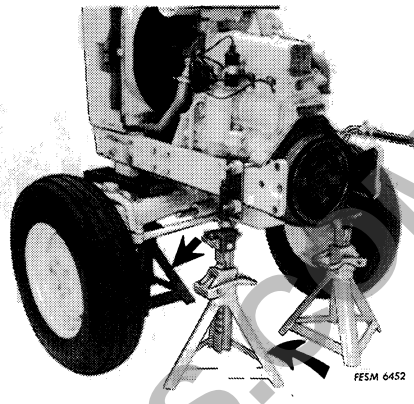


3. Always wear safety glasses when using a hammer, chisel or other tools that may cause chips to fly.

4. Keep work area organized and clean. Wipe up oil or spills of any kind. Keep tools and parts off of the floor. Eliminate the possibility of a fall which could result in a serious injury.

5. Be sure to reinstall safety devices, guards or shields after adjusting and/or servicing the machine.

6. After servicing, be sure all tools, parts, or servicing equipment are removed from the machine.



7. When splitting tractors, or disassembling machines, be sure to use safety stands and adequate supports to prevent tipping or rollover.



8. Use a safety catch on all hoist hooks. Do not take a chance, the load could slip off of the hook.



9. When using an acetylene torch always wear welding goggles and gloves. Keep a "charged" fire extinguisher within reach. Be sure the acetylene and oxygen tanks are separated by a metal shield and are chained to the cart. Do not weld or heat areas near fuel tanks or fuel lines and utilize proper shielding around hydraulic lines.

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Due to a continuous program of research and development, some procedures, specifications and parts may be altered in a constant effort to improve our products.

When changes and improvements are made in our products, periodic revisions may be made to this manual to keep it up-to-date. It is suggested that customers contact their dealer for information on the latest revision.

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2. In the Service Manual Index, on the next open line of page 2 under the heading "Compact Loaders" in the Backhoes, Loaders and Compact Loaders section, enter 4155 and page 5.

   On page 5, enter 4155, Chassis, GSS-1476-2 and Engine and Fuel System (Diesel, Isuzu) GSS-1486.

   On pages 4 and 5, change GSS-1476-1 to GSS-1476-2.

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CHASSIS
4120, 4125, 4130, 4135, 4136, 4140, 4150 and 4155
Compact Loaders

GSS-1476-2
November, 1980

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