

1845C SKID STEER

Service Manual

8-42913

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CASE CORPORATION
700 State Street
Racine, WI 53404, U.S.A.

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Burlington, ON L7N 3M6 CANADA

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NOTE: Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

1001

SAFETY RULES SERVICE MANUAL INTRODUCTION AND TORQUE SPECIFICATIONS

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SAFETY RULES

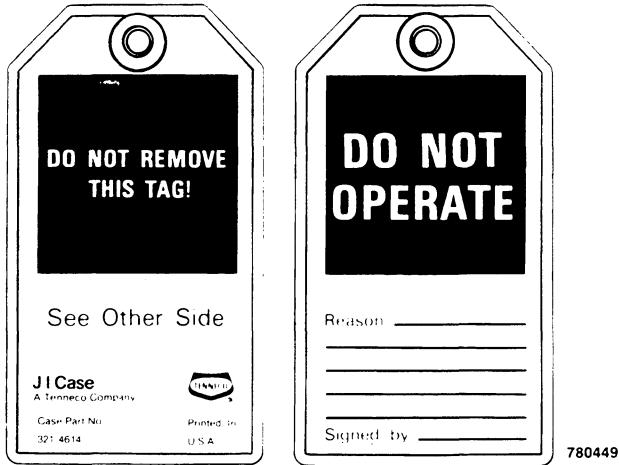


This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death. 1-1-C

IMPORTANT: To prevent injury on the job, follow the Warning, Caution, and Danger notes in this section and other sections throughout this manual. Follow the instructions carefully.

The procedures recommended and shown in this manual are good, effective service methods. However, all possible procedures and service hazards may not be covered. Therefore, if you use a tool or procedure not recommended, you must make sure that the method you select is a safe method.

Put the warning tag shown below on the key for the key switch when you are servicing or repairing this machine. One warning tag is on every new machine. You can buy additional warning tags, part number 331-4614, from Service Parts Supply.



DANGER: Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

48-56



WARNING: Read operator's manual to familiarize yourself with control lever functions.

46-27



WARNING: Operate tractor and equipment controls from the seat position only. Any other method could result in serious injury.

48-55



WARNING: This is a one man machine, no riders allowed.

35-8



WARNING: If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.

45-3-A

CORRECT



750213



WARNING: Operate controls from the operator's seat only.

35-7



WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.

35-4



WARNING: Whenever the bucket must be raised to aid in servicing, block the loader arms in place with lift cylinder support strut or a suitable safety stand.

23-7-B



1. Lift Cylinder Support Strut

855871



WARNING: When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure. 47-44



WARNING: When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way. 47-45



WARNING: Use insulated gloves or mittens when working with hot parts.

47-41A



CAUTION: Pin sized and smaller streams of hydraulic oil under pressure can penetrate the skin and result in serious infection. If hydraulic oil under pressure does penetrate the skin, seek medical treatment immediately. Maintain all hoses and tubes in good condition. Make sure all connections are tight. Make a replacement of any tube or hose that is damaged or thought to be damaged. DO NOT use your hand to check for leaks; use a piece of cardboard or wood. 40-6-A



CAUTION: When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer. 46-17



CAUTION: When using a hammer to remove and install pivot pins or separate parts, using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors). 46-13



CAUTION: When servicing or repairing the machine, keep the shop floor and operator's compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and/or shop cloths as required. Use safe practices at all times. 40-8



CAUTION: Use suitable floor (service) jacks or chain hoists to raise wheels or track off the floor. Always block machine in place with suitable safety stands. 40-7-A



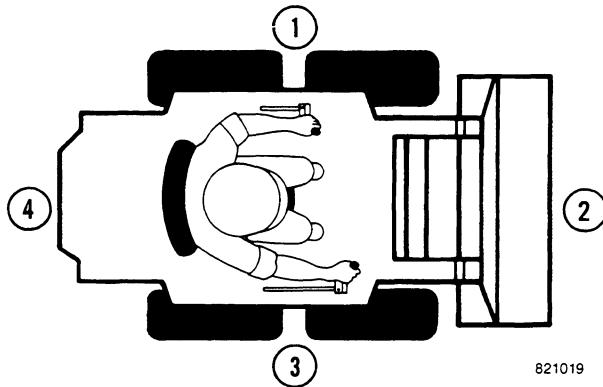
CAUTION: Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in this service manual. 40-10

SERVICE MANUAL INTRODUCTION

This service manual has been prepared with the latest service information available. Troubleshooting, removal, disassembly, inspection and installation procedures, and complete specifications and tightening references can be found in most sections. Some sections have drawings but no written procedure because the job is so easily done. This service manual is one of the most important tools available to the service technician.

Right, Left, Front, and Rear

The terms right-hand and left-hand and front and rear as used in this manual indicate the right and left sides, and front and rear of the machine as seen from the operator's seat for correct operation of the machine or attachment.



- | | |
|--------------|---------------|
| 1. Left Side | 3. Right Side |
| 2. Front | 4. Rear |

Text

If the service manual is for more than one machine or different models of components (planetary axles, gear boxes, control valves, etc.) the procedures have the steps necessary to service each model.

Table of Contents

A Table of Contents is in the front of this manual. The Table of Contents shows the main divisions and the sections that are in each division. The individual sections, where necessary, have a Table of Contents on the cover or second page of that section.

Page Numbers

All page numbers are made of two numbers separated by a dash, such as 4002-9. The number before the dash is the section number. The number following the dash is the page number in that section. Page numbers will be found at the upper right or left of each page.

Illustrations and Photos

Illustrations are put as near as possible to the text and are to be used as part of the text. Photos normally are put below the step to which they apply.

Clear and Simple English

This manual is written in C.A.S.E. (Clear and Simple English). C.A.S.E. is easier to read and understand than "regular" English because C.A.S.E. uses a small number of common words and has special rules for writing.

Special Tools

Special tools are needed to remove and install, disassemble and assemble, check, and adjust some component parts of this machine. Some special tools can be easily made locally and the necessary information to make the tool is in this service manual. Other special tools are more difficult to make locally and are available from Service Tools in the U.S. and from Jobborn Manufacturing in Canada. Use these tools according to the instructions in this service manual for your personal safety and to do the job correctly.

Order special tools from either of the following companies:

Service Tools
P.O. Box 314
Owatonna, Minnesota 55060

Jobborn Manufacturing Co.
97 Frid Street
Hamilton, Ontario L8P 4M3
Canada

PRODUCT IDENTIFICATION NUMBER (PIN) AND SERIAL NUMBERS

NOTE: *A serial number plate is also on some components such as the starter, alternator, pump, etc.*

TORQUE SPECIFICATIONS - U.S. HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers, dry, or when lubricated with engine oil. Not applicable if special graphites, moly-disulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs			
Size	Pound-Feet	Newton metres	Kilogram metres
1/4 in 6.4 mm	9-11	12-15	1.2-1.5
5/16 in 7.9 mm	17-21	23-28	2.4-2.9
3/8 in 9.5 mm	35-42	48-57	4.8-5.8
7/16 in 11.1 mm	54-64	73-87	7.5-8.8
1/2 in 12.7 mm	80-96	109-130	11.1-13.3
9/16 in 14.3 mm	110-132	149-179	15.2-18.2
5/8 in 15.9 mm	150-180	203-244	20.8-24.9
3/4 in 19.0 mm	270-324	366-439	37.3-44.8
7/8 in 22.2 mm	400-480	542-651	55.3-66.4
1.0 in 25.4 mm	580-696	787-944	80.2-96.2
1-1/8 in 28.6 mm	800-880	1085-1193	111-122
1-1/4 in 31.8 mm	1120-1240	1519-1681	155-171
1-3/8 in 34.9 mm	1460-1680	1980-2278	202-232
1-1/2 in 38.1 mm	1940-2200	2631-2983	268-304

Grade 8 Bolts, Nuts, and Studs			
			
1/4 in 6.4 mm	12-15	16-20	1.7-2.1
5/16 in 7.9 mm	24-29	33-39	3.3-4.0
3/8 in 9.5 mm	45-54	61-73	6.2-7.5
7/16 in 11.1 mm	70-84	95-114	9.7-11.6
1/2 in 12.7 mm	110-132	149-179	15.2-18.2
9/16 in 14.3 mm	160-192	217-260	22.1-26.5
5/8 in 15.9 mm	220-264	298-358	30.4-36.5
3/4 in 19.0 mm	380-456	515-618	52.5-63.0
7/8 in 22.2 mm	600-720	814-976	83.0-99.5
1.0 in 25.4 mm	900-1080	1220-1465	124-149
1-1/8 in 28.6 mm	1280-1440	1736-1953	177-199
1-1/4 in 31.8 mm	1820-2000	2468-2712	252-277
1-3/8 in 34.9 mm	2380-2720	3227-3688	329-376
1-1/2 in 38.1 mm	3160-3560	4285-4827	437-492

TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when special torques are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or moly-disulfide grease or oil is used.

Grade 8.8 Bolts, Nuts, and Studs			
8.8			
Size	Pound-Feet	Newton metres	Kilogram metres
M4 0.15 in	2-3	3-4	0.3-0.4
M5 0.19 in	5-6	6.5-8	0.7-0.8
M6 0.23 in	8-9	10.5-12	1.1-1.2
M8 0.31 in	19-23	26-31	2.6-3.2
M10 0.39 in	38-45	52-61	5.3-6.2
M12 0.46 in	66-79	90-107	9.1-10.9
M14 0.55 in	106-127	144-172	14.7-17.6
M16 0.62 in	160-200	217-271	22.1-27.7
M20 0.78 in	320-380	434-515	44.2-52.5
M24 0.94 in	500-600	675-815	69.1-83.0
M30 1.17 in	920-1100	1250-1500	127-152
M36 1.40 in	1600-1950	2175-2600	221-270

Grade 10.9 Bolts, Nuts, and Studs

10.9			
Size	Pound-Feet	Newton metres	Kilogram metres
M4 0.15 in	3-4	4-5	0.4-0.5
M5 0.19 in	7-8	9.5-11	1.0-1.1
M6 0.23 in	11-13	15-17.5	1.5-1.8
M8 0.31 in	27-32	37-43	3.7-4.4
M10 0.39 in	54-64	73-87	7.5-8.8
M12 0.46 in	93-112	125-150	12.9-15.5
M14 0.55 in	149-179	200-245	20.6-24.7
M16 0.62 in	230-280	310-380	31.8-38.7
M20 0.78 in	450-540	610-730	62.2-74.7
M24 0.94 in	780-940	1050-1275	108-130
M30 1.17 in	1470-1770	2000-2400	203-245
M36 1.40 in	2580-3090	3500-4200	357-427

Grade 12.9 Bolts, Nuts, and Studs

12.9			
Size	Pound-Feet	Newton metres	Kilogram metres
M4 0.15 in	3-4	4-5	0.4-0.5
M5 0.19 in	7-8	9.5-11	1.0-1.1
M6 0.23 in	11-13	15-17.5	1.5-1.8
M8 0.31 in	27-32	37-43	3.7-4.4
M10 0.39 in	54-64	73-87	7.5-8.8
M12 0.46 in	93-112	125-150	12.9-15.5
M14 0.55 in	149-179	200-245	20.6-24.7
M16 0.62 in	230-280	310-380	31.8-38.7
M20 0.78 in	450-540	610-730	62.2-74.7
M24 0.94 in	780-940	1050-1275	108-130
M30 1.17 in	1470-1770	2000-2400	203-245
M36 1.40 in	2580-3090	3500-4200	357-427

Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres	Kilogram metres
37 Degree Flare Fittings				
1/4 in 6.4 mm	7/16-20	6-12	8-16	0.8-1.7
5/16 in 7.9 mm	1/2-20	8-16	11-21	1.1-2.2
3/8 in 9.5 mm	9/16-18	10-25	14-33	1.4-3.5
1/2 in 12.7 mm	3/4-16	15-42	20-56	2.1-5.8
5/8 in 15.9 mm	7/8-14	25-58	34-78	3.5-8.0
3/4 in 19.0 mm	1-1/16-12	40-80	54-108	5.5-11.1
7/8 in 22.2 mm	1-3/16-12	60-100	81-135	8.3-13.9
1.0 in 25.4 mm	1-5/16-12	75-117	102-158	10.4-16.2
1-1/4 in 31.8 mm	1-5/8-12	125-165	169-223	17.3-22.8
1-1/2 in 38.1 mm	1-7/8-12	210-250	285-338	29.0-34.6

Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres	Kilogram metres
Straight Threads with O-ring				
1/4 in 6.4 mm	7/16-20	12-19	16-25	1.7-2.6
5/16 in 7.9 mm	1/2-20	16-25	22-33	2.2-3.5
3/8 in 9.5 mm	9/16-18	25-40	34-54	3.5-5.5
1/2 in 12.7 mm	3/4-16	42-67	57-90	5.8-9.3
5/8 in 15.9 mm	7/8-14	58-92	79-124	8.0-12.7
3/4 in 19.0 mm	1-1/16-12	80-128	108-174	11.1-17.8
7/8 in 22.2 mm	1-3/16-12	100-160	136-216	13.8-22.1
1.0 in 25.4 mm	1-5/16-12	117-187	159-253	16.2-25.9
1-1/4 in 31.8 mm	1-5/8-12	165-264	224-357	22.8-36.5
1-1/2 in 38.1 mm	1-7/8-12	250-400	339-542	34.6-55.3

Split Flange Mounting Bolts			
Size	Pound- Feet	Newton metres	Kilogram metres
5/16-18	15-20	20-27	2.1-2.8
3/8-16	20-25	26-33	2.8-3.5
7/16-14	35-45	47-61	4.7-6.2
1/2-13	55-65	74-88	7.6-9.0
5/8-11	140-150	190-203	19.4-20.7

1002

Section

1002

FLUIDS AND LUBRICANTS

1845C Skid Steer

CASE CORPORATION
700 State Street
Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION
450 Sherman Avenue
Hamilton, ON L8N 4C4 CANADA

Bur 8-17742

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CAPACITIES AND LUBRICANTS

ENGINE OIL

Capacity with filter change	10.4 litres (11 U.S. quarts)
Type of oil.....	See Engine Oil Recommendations on Page 3
Oil Level Check Interval.....	Every 10 Hours of Operation or One Time Each Day
Oil Change and Filter Replacement Interval.....	Every 250 Hours of Operation

ENGINE COOLING SYSTEM

Capacity	17 litres (18 U.S. quarts)
Type of coolant	Ethylene glycol and water mixed for lowest ambient temperature at least 50/50 mix

FUEL TANK

Capacity	81.4 litres (21.5 U.S. gallons)
----------------	---------------------------------

HYDRAULIC SYSTEM

System capacity.....	39.7 litres (10.5 U.S. gallons)
Reservoir capacity with filter change	32.2 litres (8.5 U.S. gallons)
Reservoir capacity without filter change	31.2 litres (8.25 U.S. gallons)
Type of oil (Specifications).....	Case No. 1 engine oil SAE 10W30 (API Service CE, CD, CC/SG) mixed with Case HTO additive

NOTE: Machines prior to PIN JAF0067438 do not need the Case HTO additive. All machines PIN JAF0067438 and after must have the Case HTO additive mixed as instructed.

WHEN CHANGING OIL: When you change the hydraulic oil, you must add 1.4 litres (1.5 U.S. quarts) of Case HTO additive (Case part number B17508).

WHEN ADDING OIL: When you add oil to the hydraulic reservoir between oil changes, you must use a mixture of Case HTO additive and SAE 10W-30 engine oil. Completely mix one U.S. quart of Case HTO additive to 19 litres (5 U.S. gallons) of 10W-30 engine oil (20 to 1 ratio).

DRIVE CHAIN COMPARTMENTS

Capacity (each)	4.7 litres (5 U.S. quarts)
Type of oil (Specifications).....	Case No. 1 engine oil - SAE 10W30

PLANETARIES (Only Before PIN JAF0067438)

Capacity (each side)	0.5 litres (1 U.S. pint)
Type of oil (Specifications).....	Case No. 1 engine oil - SAE 10W30

GREASE FITTINGS

Quantity	As required
Specifications	Case molydisulfide grease

BATTERY

Quantity	As required
Specifications	Drinking or distilled water

ENGINE LUBRICATION

Engine Oil Selection

Case No. 1 Engine Oil is recommended for use in your Case Uni-Loader Engine. Case Engine Oil will lubricate your engine correctly under all operating conditions.

If Case No. 1 Multi-Viscosity or Single Viscosity Engine Oil is not available, use only oil meeting API engine oil service category CE.



ts98h007

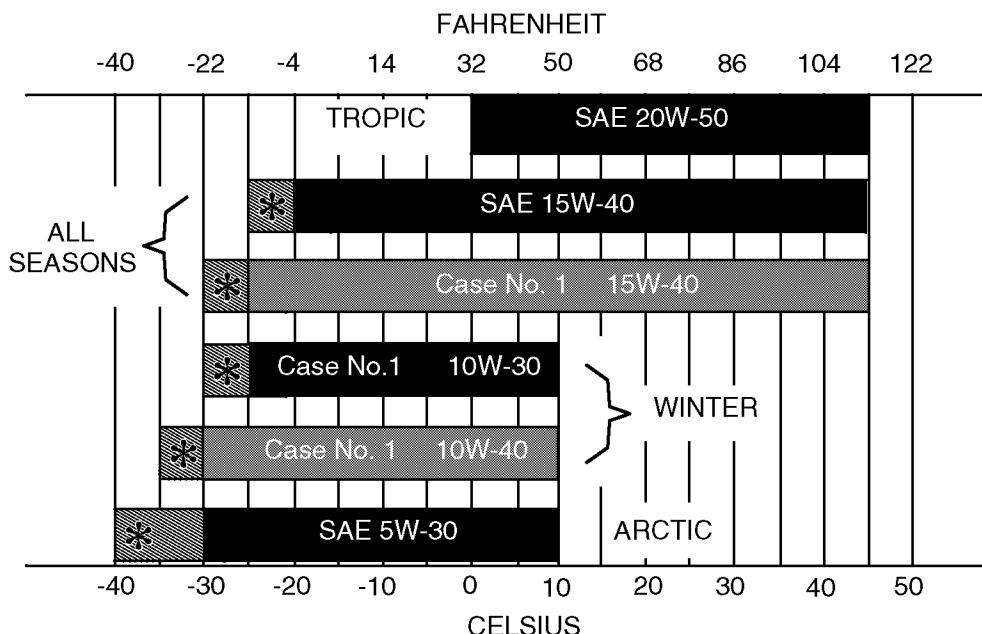


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See the chart below for recommended viscosity at ambient air temperature ranges.

NOTE: Do not put Performance Additives or other oil additive products in the engine crank-case. The oil change intervals given in this manual are according to tests with Case Lubricants.

Oil Viscosity / Temperature Usage Recommendation



* Use of an engine oil heater, or an engine coolant heater, is required in crosshatched area.

ts98h006

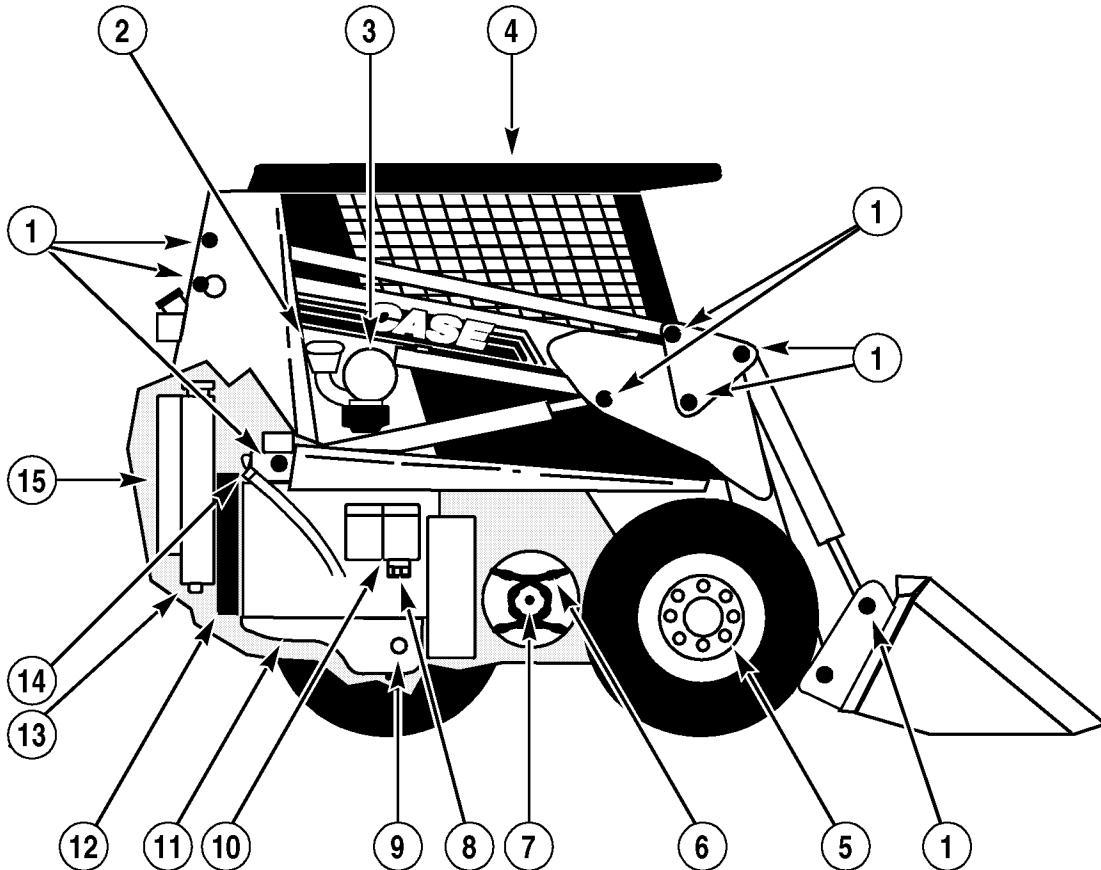
MAINTENANCE SCHEDULE									
SERVICE ITEM		AS REQUIRED	EVERY 10 HOURS OF OPERATION OR DAILY	EVERY 50 HOURS OF OPERATION	EVERY 100 HOURS OF OPERATION	EVERY 250 HOURS OF OPERATION	EVERY 500 HOURS OF OPERATION	EVERY 1000 HOURS OF OPERATION	EVERY 2000 HOURS OF OPERATION
1.	Lubricate the Loader Pivot Points (16 Grease Fittings) Case Molydisulfide Grease.		●						
2.	Check the Precleaner for the Air Cleaner - if Equipped. See Operators Manual.		●						
3.	Service the Air Cleaner if the Air Cleaner Warning Lamps On. See Operators Manual.	●							
3.	Clean and Check the Air Cleaner Dust Valve. See Operators Manual.			●					
3.	Replace the Air Cleaner Elements. Use Case Filter.								●
4.	Inspect the Rops. See Operators Manual.					●			
5.	Check the Wheel Nut Torque, 115 to 125 lb ft (156 To 170 Nm). See Section 6008	●							
6.	Check the Drive Chain Tension (Each Side). See Section 9001.					●			
7.	Lubricate the Cluster Sprocket Bearings (2 Grease Fittings) Case Molydisulfide Grease.					●			
8.	Drain Water from the Fuel Filter. See Operators Manual.			●					
9.	Change Engine Oil and Replace the Engine Oil Filter. Case No. 1 Engine Oil, Use Case Filters.					●			
10.	Replace the Fuel Filter(s). See Operators Manual.						●		
11.	Clean Dirt and Debris from the Engine Area.	●							
12.	Check the Fan Belt for Wear Replace if Damaged.	●							
13.	Drain, Flush and Refill the Engine Cooling System (See Note 3). Ethylene Glycol and Water.								●
14.	Check Engine Oil Level Case No. 1 Engine Oil.		●						
15.	Check and Clean the Hydraulic Oil Cooler. See Operators Manual.		●						

NOTE 1: When adding oil to the hydraulic reservoir between oil changes, use a mixture of Case HTO additive and SAE 10W30 engine oil. Completely mix one U.S. quart of Case HTO additive to 19 litres (5 U.S. gallons) of SAE 10W30 oil (20 to 1 ratio).

NOTE 2: When changing the hydraulic oil in the reservoir, add 1.7 litres (1.6 U.S. gallons) of Case HTO additive (Case Part No. B17508).

NOTE 3: Use Ethylene Glycol and water that is mixed 50/50. When adding to the engine, use this mixture.

MAINTENANCE LOCATIONS



ts98h004

IF YOU OPERATE THE MACHINE IN SEVERE CONDITIONS, LUBRICATE AND SERVICE THE MACHINE MORE FREQUENTLY. IT IS RECOMMENDED THAT YOU SEE YOUR **CASE** DEALER FOR INFORMATION ON THE SYSTEMGARD LUBRICATION SYSTEM.

SEE YOUR OPERATORS MANUAL FOR MAINTENANCE OF SAFETY RELATED ITEMS AND FOR DETAILED INFORMATION OF THE SERVICE ITEMS ON THIS CHART. OPERATORS AND SERVICE MANUALS ARE AVAILABLE FOR THIS MACHINE FROM YOUR **CASE** DEALER.

MAINTENANCE SCHEDULE

SERVICE ITEM

AS REQUIRED

EVERY 10 HOURS OF OPERATION OR DAILY

EVERY 50 HOURS OF OPERATION

EVERY 100 HOURS OF OPERATION

EVERY 250 HOURS OF OPERATION

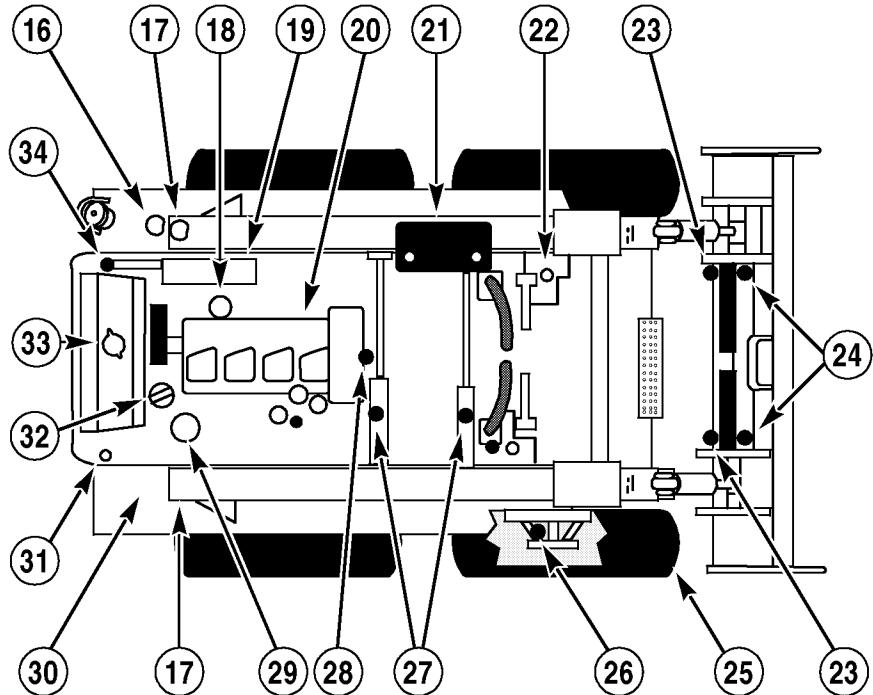
EVERY 500 HOURS OF OPERATION

EVERY 1000 HOURS OF OPERATION

EVERY 2000 HOURS OF OPERATION

16.	Drain Water from the Fuel Tank. See Operators Manual.						●	
17.	Change the Chain Compartment Oil (Each Side) Case No. 1 Engine Oil (SAE 10W30).					●		
18.	Change Engine Oil and Replace the Engine Oil Filter. Case No. 1. Engine Oil, Use Case Filters.				●			
19.	Clean the Spark Arrester Muffler. See Operators Manual.			●				
20.	Check the Engine Valve Clearance. See Service Manual.						●	
21.	Clean the Battery and Check the Battery Fluid Level. Add Drinking or Distilled Water.				●			
22.	Change the Planetary Oil (Each Side) Only Before PIN JAF0067438. Case 135H EP Gear Lube.						●	
23.	Lubricate the Coupler Wedges (2 Grease Fittings) if Equipped. Case Molydisulfide Grease.	●						
24.	Lubricate the Case Coupler Latch Pivots (2 Grease Fittings. Case Molydisulfide Grease.				●			
25.	Check the Tire Air Pressure and Tire Condition. See Section 6008.		●					
26.	Lubricate Each Axle Bearing (4 Grease Fittings). Case Molydisulfide Grease.					●		
27.	Lubricate the Loader Cross Shaft Pivot (2 Grease Fittings). Case Molydisulfide Grease.					●		
28.	Lubricate the Drive Shaft Universals (2 Fittings). Case Molydisulfide Grease.						●	
29.	Replace the Hydraulic Oil Filter. Use Case Filters.						●	
29.	Replace the Hydraulic Filter if the Hydraulic Filter Warning Lamp Is On. Use Case Filters.	●						
30.	Change the Hydraulic Oil (See Note 2). Case No.1 Engine Oil.							●
31.	Check the Hydraulic Reservoir Oil Level. (See Note 1). Case No. 1 Engine Oil.		●					
32.	Check Engine Oil Level. Case No. 1 Engine Oil.		●					
33.	Check the Radiator Coolant Level (See Note 3). Ethylene Glycol and Water.					●		
34.	Check the Engine Coolant Reservoir Fluid Level (See Note 3). Ethylene Glycol And Water.		●					

MAINTENANCE LOCATIONS



ts98h005

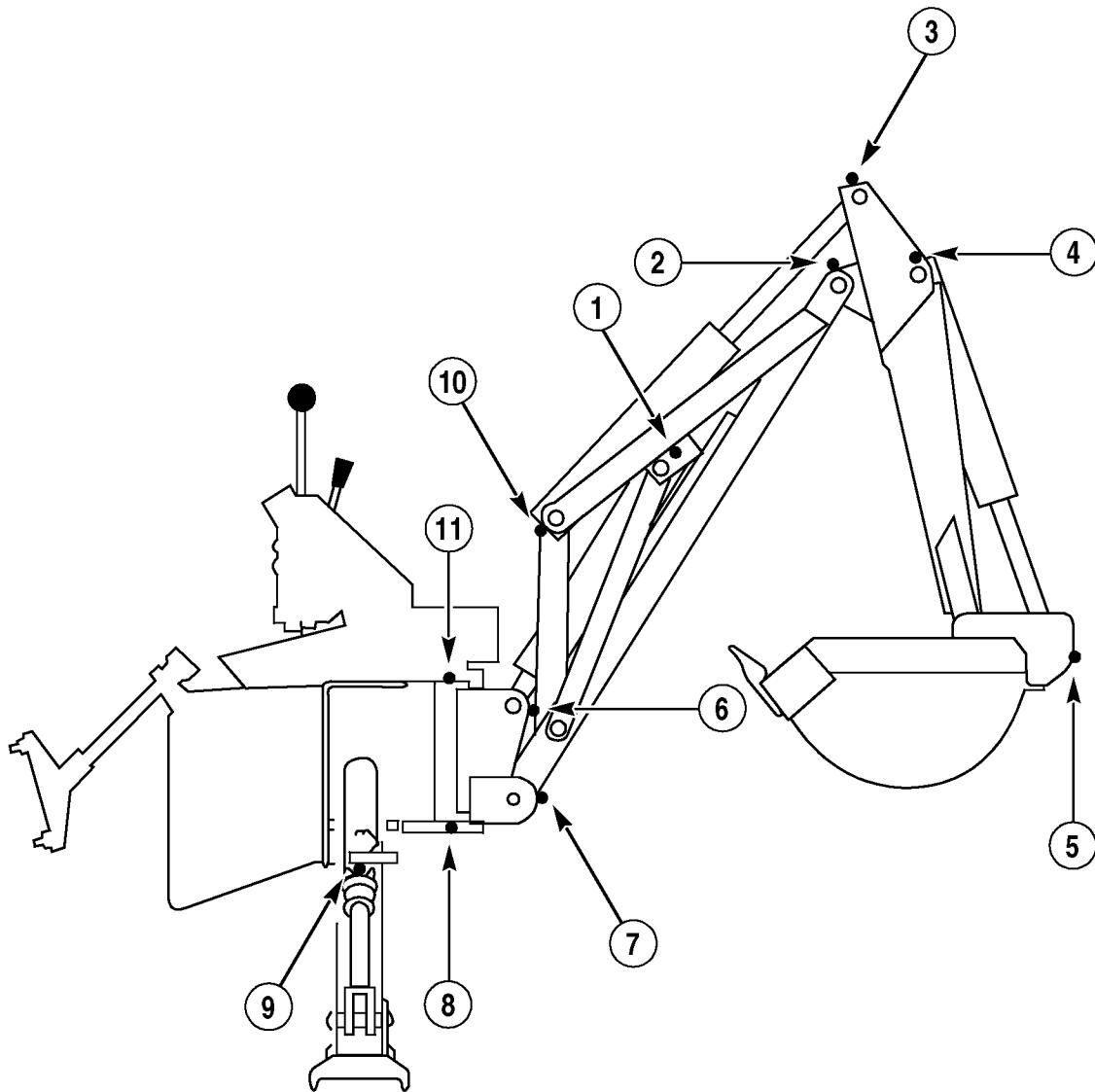
IF YOU OPERATE THE MACHINE IN SEVERE CONDITIONS, LUBRICATE AND SERVICE THE MACHINE MORE FREQUENTLY. IT IS RECOMMENDED THAT YOU SEE YOUR **CASE** DEALER FOR INFORMATION ON THE SYSTEMGARD LUBRICATION SYSTEM.

SEE YOUR OPERATORS MANUAL FOR MAINTENANCE OF SAFETY RELATED ITEMS AND FOR DETAILED INFORMATION OF THE SERVICE ITEMS ON THIS CHART. OPERATORS AND SERVICE MANUALS ARE AVAILABLE FOR THIS MACHINE FROM YOUR **CASE** DEALER.

D100 - D100XR BACKHOE PIVOTS (IF EQUIPPED)
Use Case Molydisulfide Grease

SERVICE ITEM		AS REQUIRED	EVERY 10 HOURS OF OPERATION OR DAILY	EVERY 50 HOURS OF OPERATION	EVERY 100 HOURS OF OPERATION	EVERY 250 HOURS OF OPERATION	EVERY 500 HOURS OF OPERATION	EVERY 1000 HOURS OF OPERATION	EVERY 2000 HOURS OF OPERATION
	Lubricate the Backhoe Pivot Points (8 Fittings D100 Backhoe and 12 Fittings D100XR Backhoe). Case Molydisulfide Grease.		●						
	Lubricate the Manure Fork Grapple (2 Grease Fittings) if Equipped. Not Shown. Case Molydisulfide Grease.		●						
	Check the Control Linkages and Test Seat Bar Operation. See Section 9001.		●						
1.	Upper Swing Pivot - 1 Fitting		●						
2.	Dipper Cylinder, Closed End - 1 Fitting		●						
3.	Boom Cylinder, Closed End - 1 Fitting		●						
4.	Dipper Pivot - 1 Fitting		●						
5.	Dipper Cylinder, Rod End - 1 Fitting		●						
6.	Bucket Cylinder, Closed End - 1 Fitting		●						
7.	Bucket Cylinder, Rod End - 1 Fitting		●						
8.	Boom Cylinder, Rod End - 1 Fitting		●						
9.	Boom Pivot		●						
10.	Lower Swing Pivot - 1 Fitting		●						
11.	Stabilizer Pivot - 2 Fittings (One Each Side)		●						

D100 - D100XR BACKHOE PIVOTS (IF EQUIPPED)
Use Case Molydisulfide Grease



ts98h008

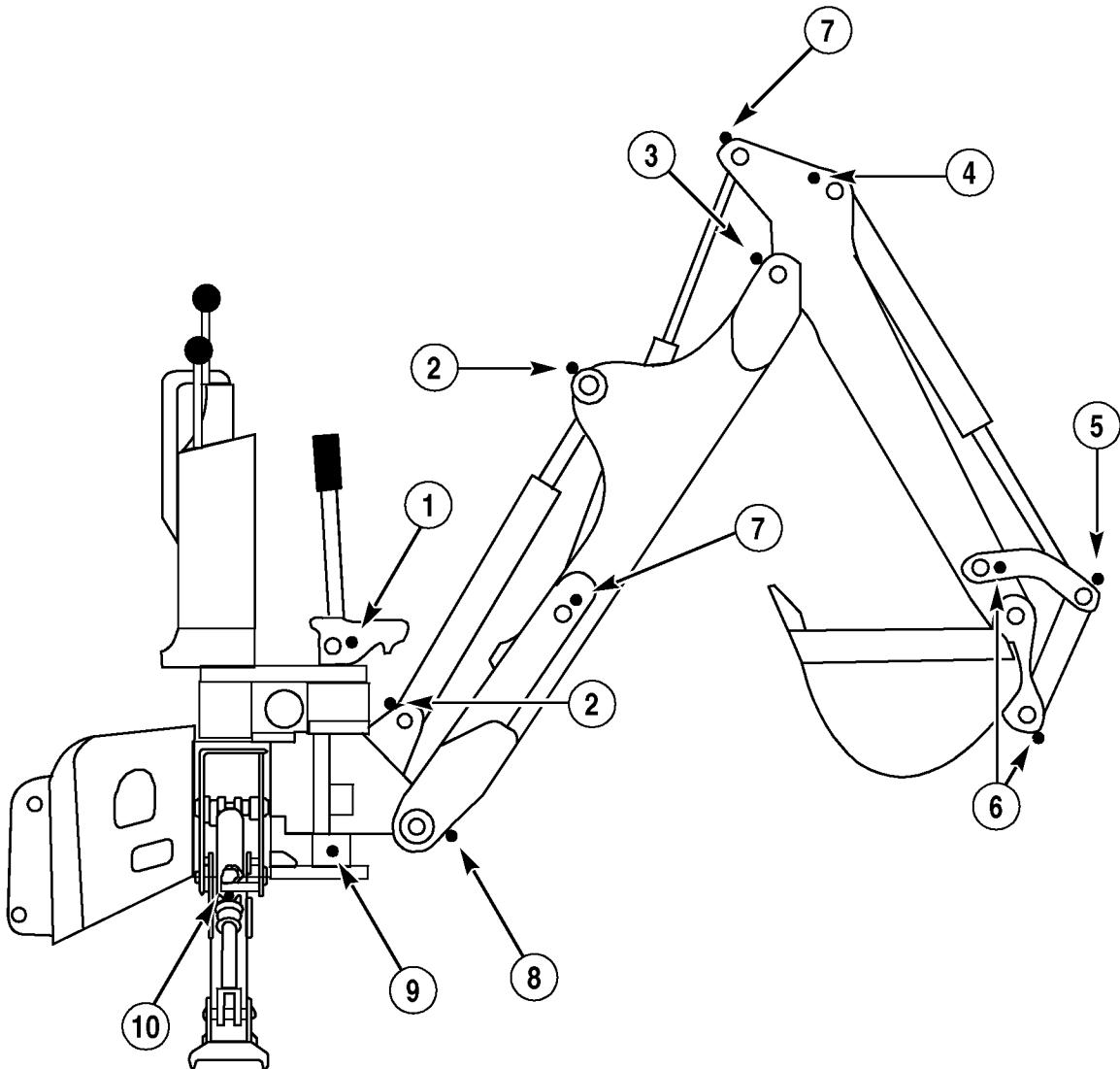
IF YOU OPERATE THE MACHINE IN SEVERE CONDITIONS, LUBRICATE AND SERVICE THE MACHINE MORE FREQUENTLY. IT IS RECOMMENDED THAT YOU SEE YOUR **CASE** DEALER FOR INFORMATION ON THE SYSTEMGARD LUBRICATION SYSTEM.

SEE YOUR OPERATORS MANUAL FOR MAINTENANCE OF SAFETY RELATED ITEMS AND FOR DETAILED INFORMATION OF THE SERVICE ITEMS ON THIS CHART. OPERATORS AND SERVICE MANUALS ARE AVAILABLE FOR THIS MACHINE FROM YOUR **CASE** DEALER.

D125 BACKHOE PIVOTS (IF EQUIPPED)
Use Case Molydisulfide Grease

SERVICE ITEM		AS REQUIRED	EVERY 10 HOURS OF OPERATION OR DAILY	EVERY 50 HOURS OF OPERATION	EVERY 100 HOURS OF OPERATION	EVERY 250 HOURS OF OPERATION	EVERY 500 HOURS OF OPERATION	EVERY 1000 HOURS OF OPERATION	EVERY 2000 HOURS OF OPERATION
	Lubricate the Backhoe Pivot Points (22 Fittings D125 Backhoe). Case Molydisulfide Grease.		●						
	Lubricate the Manure Fork Grapple (2 Grease Fittings) if Equipped. Not Shown. Case Molydisulfide Grease.		●						
	Check the Control Linkages and Test Seat Bar Operation. See Section 9001.		●						
1.	Upper Swing Pivot - 1 Fitting		●						
2.	Boom Cylinder - 2 Fittings		●						
3.	Dipper Pivot - 1 Fitting		●						
4.	Bucket Cylinder, Closed End - 1 Fitting		●						
5.	Bucket Cylinder, Rod End - 1 Fitting		●						
6.	Bucket Pivot and Linkage - 2 Fittings		●						
7.	Dipper Cylinder - 2 Fittings		●						
8.	Boom Pivot		●						
9.	Lower Swing Pivot - 1 Fitting		●						
10.	Stabilizer Pivot - 2 Fittings (One Each Side)		●						

D125 BACKHOE PIVOTS (IF EQUIPPED)
Use Case Molydisulfide Grease



ts98h009

IF YOU OPERATE THE MACHINE IN SEVERE CONDITIONS, LUBRICATE AND SERVICE THE MACHINE MORE FREQUENTLY. IT IS RECOMMENDED THAT YOU SEE YOUR **CASE** DEALER FOR INFORMATION ON THE SYSTEMGARD LUBRICATION SYSTEM.

SEE YOUR OPERATORS MANUAL FOR MAINTENANCE OF SAFETY RELATED ITEMS AND FOR DETAILED INFORMATION OF THE SERVICE ITEMS ON THIS CHART. OPERATORS AND SERVICE MANUALS ARE AVAILABLE FOR THIS MACHINE FROM YOUR **CASE** DEALER.

2000

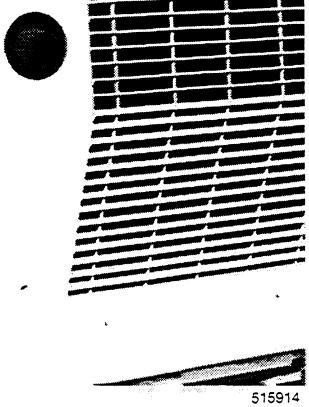
ENGINE AND RADIATOR REMOVAL AND INSTALLATION

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Engine Removal	2000-2	Illustration of Radiator and Oil Cooler Installation	2000-17
Engine Installation	2000-10	Radiator Installation	2000-20
Radiator Removal	2000-17		

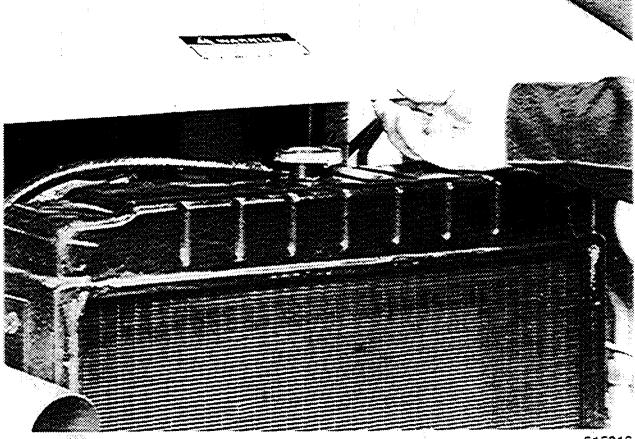
ENGINE REMOVAL

1. Open the rear door.



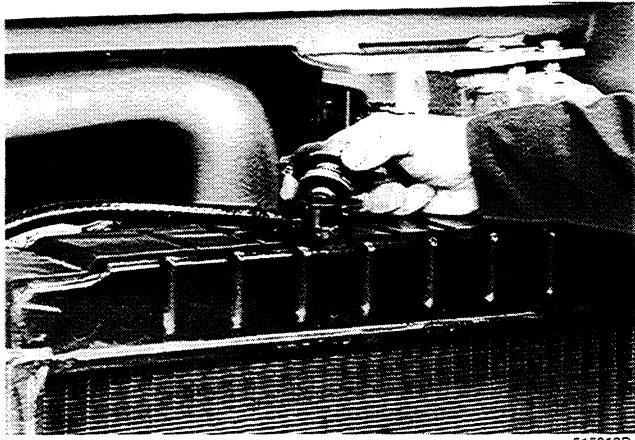
515914

2. Raise the rear cover.



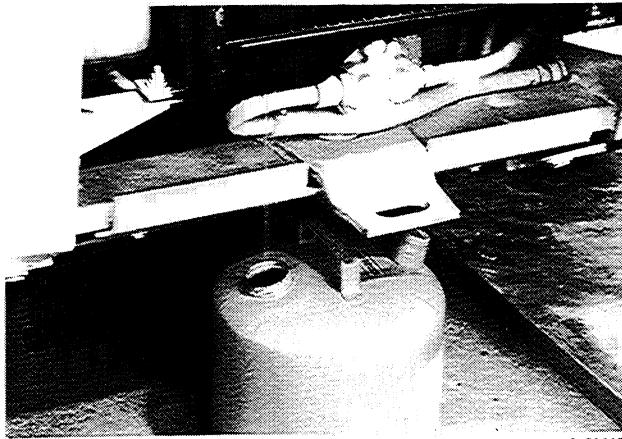
515916

3. Loosen and remove the radiator cap.



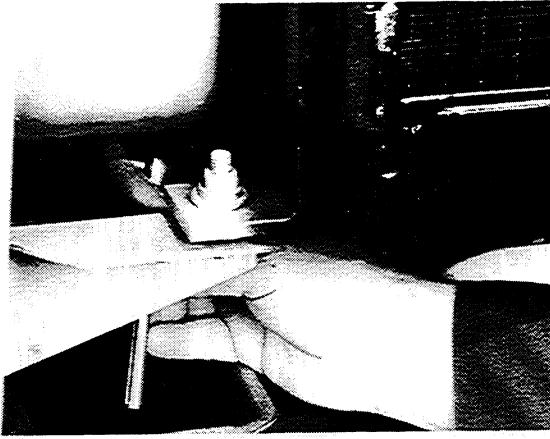
515918R

4. Open the drain valve at the LH bottom side of the radiator and drain the cooling system. The cooling system contains approximately 18.2 quarts (17.2 litres) of coolant.



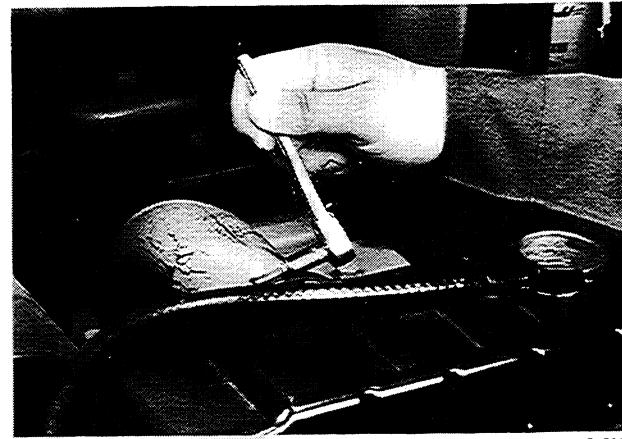
515920R

5. Drain the coolant reservoir. Loosen the clamp for the hose on the coolant reservoir and disconnect the hose to drain the coolant reservoir.



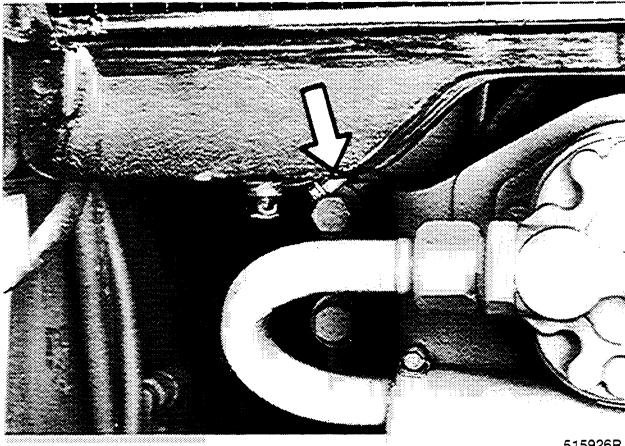
515922

6. Loosen the clamp on the top radiator hose and disconnect the hose.

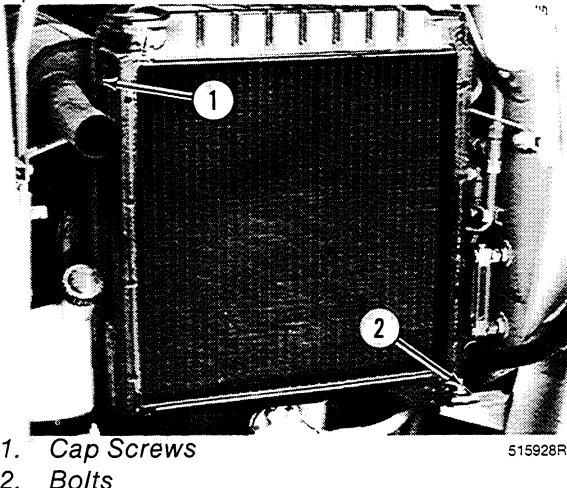


515924

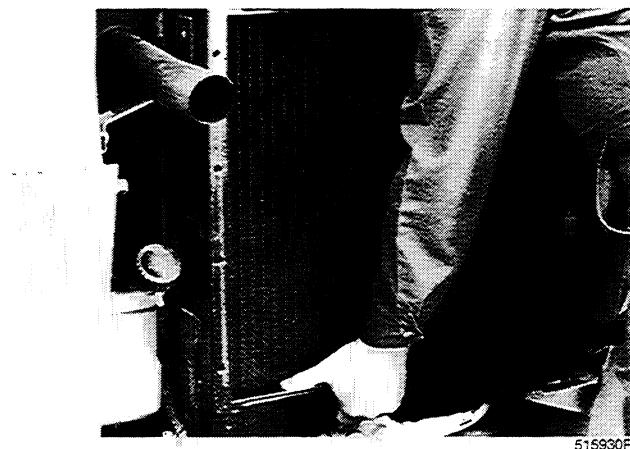
7. Loosen the clamp on the bottom radiator hose.



8. Loosen and remove the cap screws, bolts, lock washers, flat washers, and nuts that hold the radiator in place.



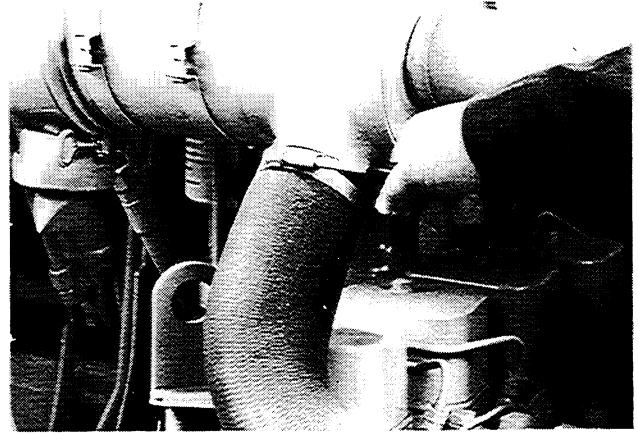
9. Pull the radiator to the rear to disconnect the bottom radiator hose, and remove the radiator from the machine.



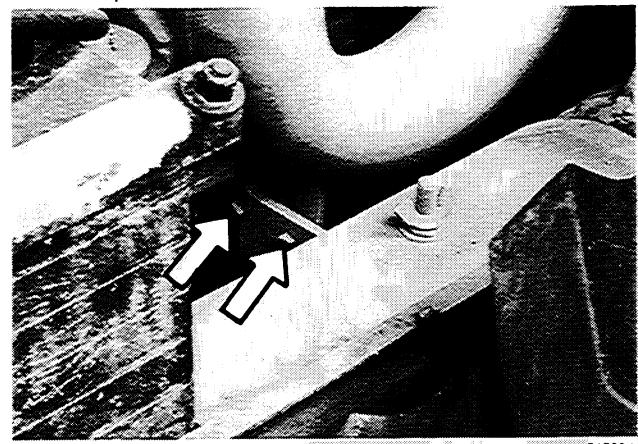
10. Move the operators compartment forward according to the instructions in Section 9003.

11. If equipped with a precleaner:

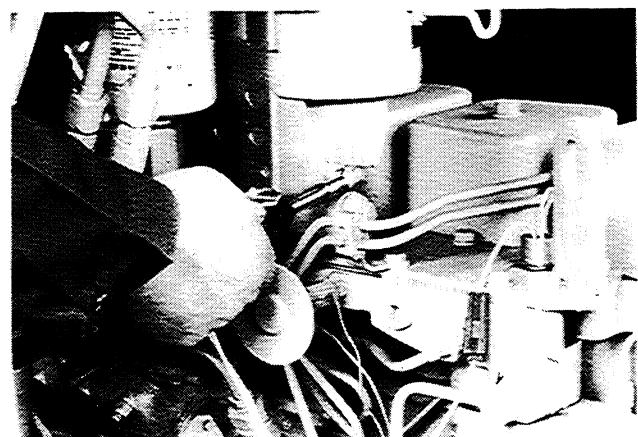
- a. Loosen the clamp and disconnect the hose for the precleaner.



- b. Loosen and remove the nuts, lock washers, and bolts that hold the tube for the pre-cleaner to the frame. Remove the hose, tube, and precleaner.

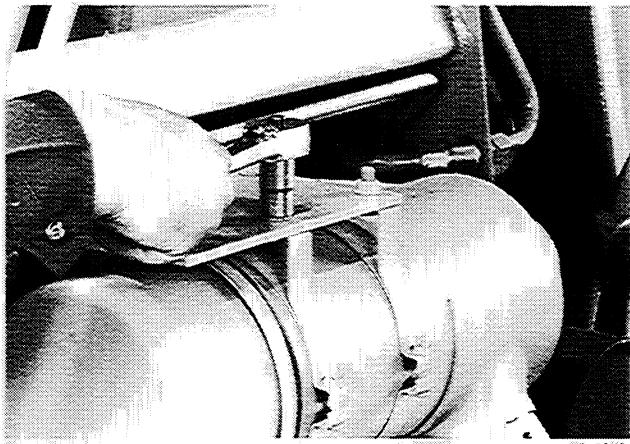


12. Loosen the clamp on the hose at the intake manifold. Remove the hose.



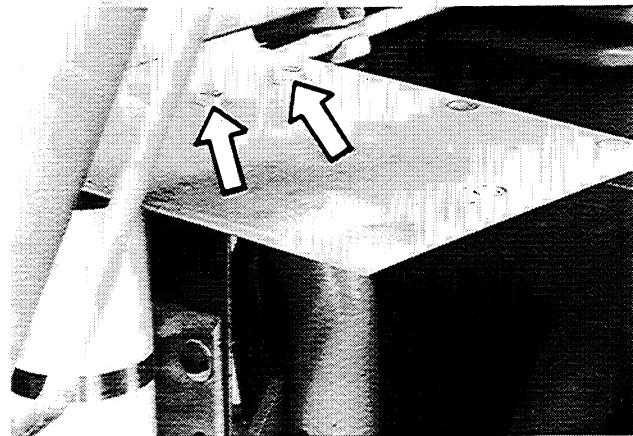
13. Cover or close the opening in the intake manifold.

14. Loosen and remove the nuts and bolts that fasten the air cleaner to the bracket. Remove the air cleaner.



515940

d. Loosen and remove nuts, lock washers, bolts, and flat washers that fasten the bracket. Remove the bracket.

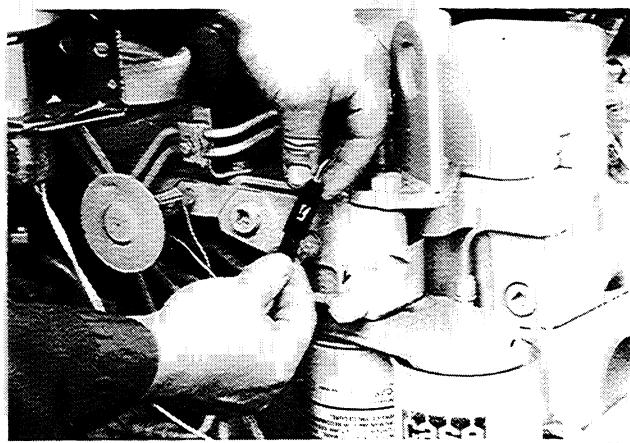


515903

15. If equipped with ether injection:

a. Disconnect the tube from the intake manifold.

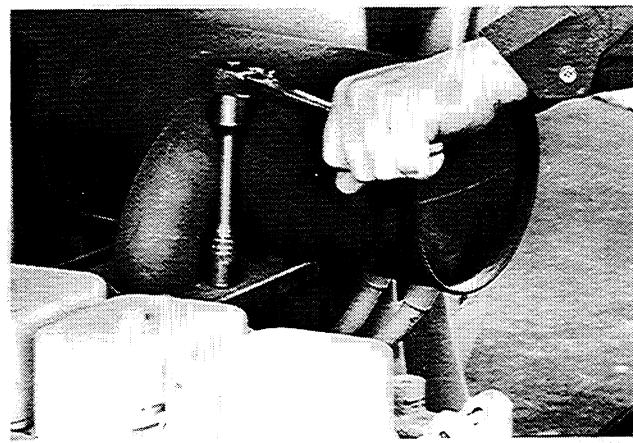
b. Disconnect the wire for the thermostat.



515901

c. Disconnect the wire to the valve assembly.

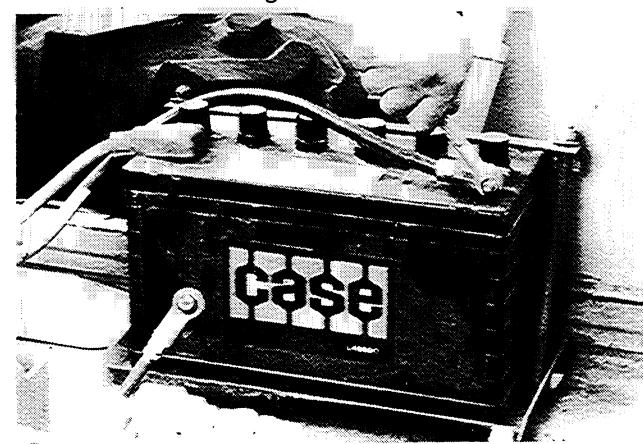
16. Loosen and remove the cap screws and lock washers that hold the muffler to the exhaust manifold. Remove the muffler.



516008

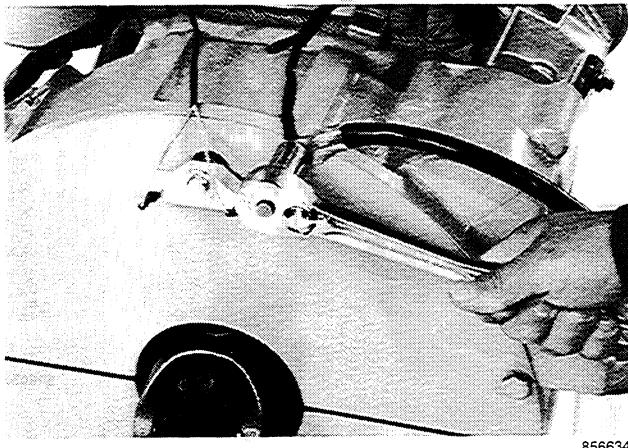
17. Cover or close the opening in the exhaust manifold.

18. Disconnect the ground cable from the battery.

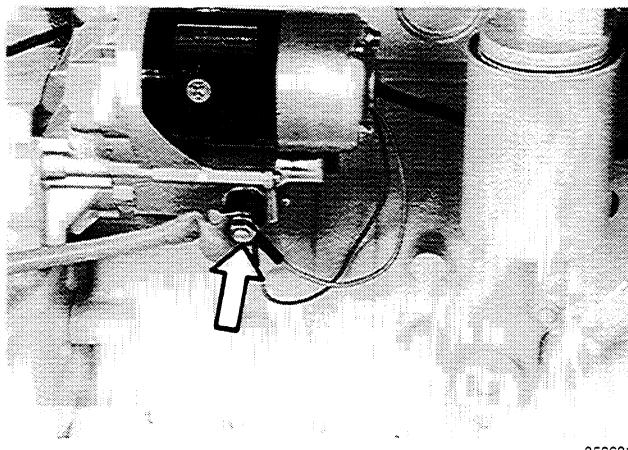


516010

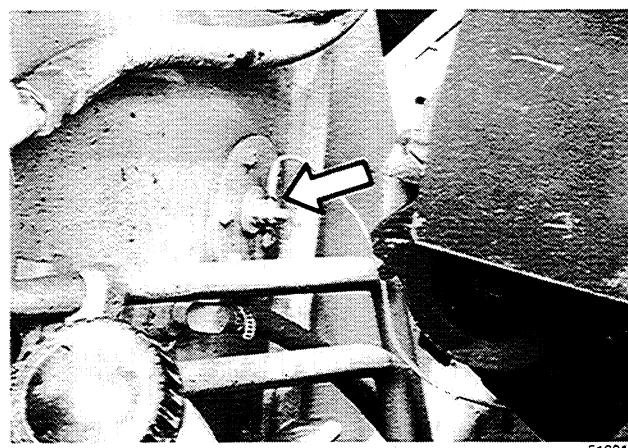
19. Loosen and remove the cap screw and lock washers that fasten the wiring harness, and ground cable to the cover on the flywheel housing. Remove the ground cable.



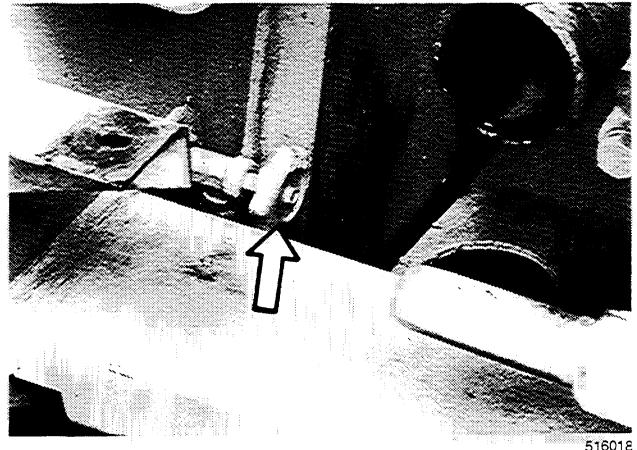
20. Disconnect the positive cable from the battery terminal on the starter solenoid.



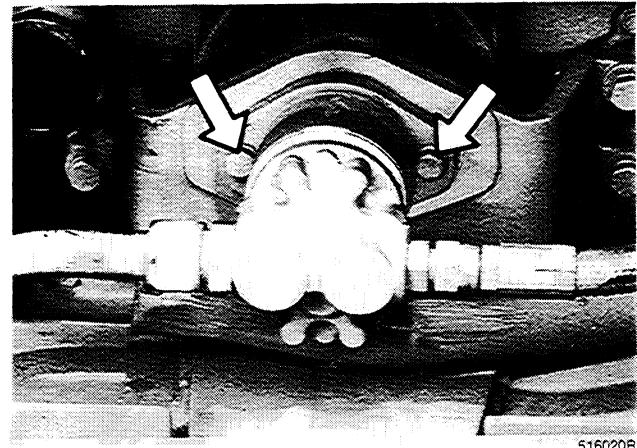
21. Disconnect the wire from the fuel level sender.



22. Close the shutoff valve for the fuel supply line.

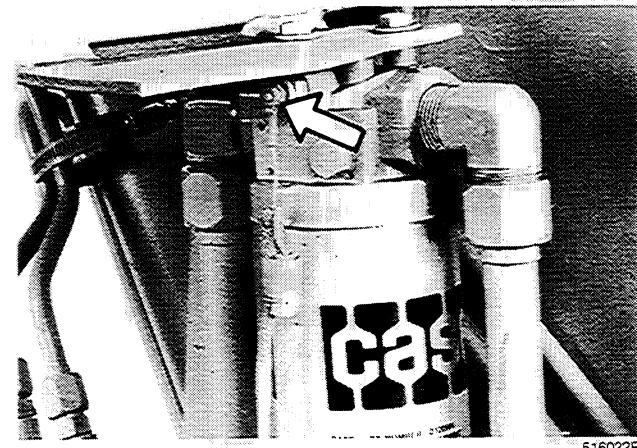


23. Loosen and remove the cap screws and lock washers that hold the equipment pump to the rear engine mount.

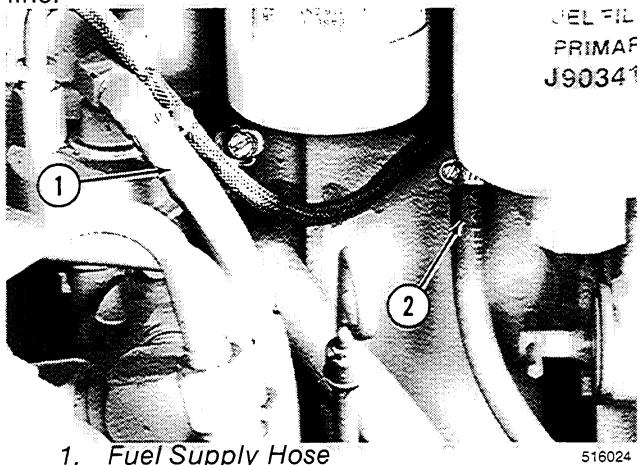


24. Pull the equipment pump away from the rear engine mount to disengage the drive shaft of the equipment pump from the coupling on the crank-shaft pulley.

25. Disconnect the wire from the hydraulic oil filter.



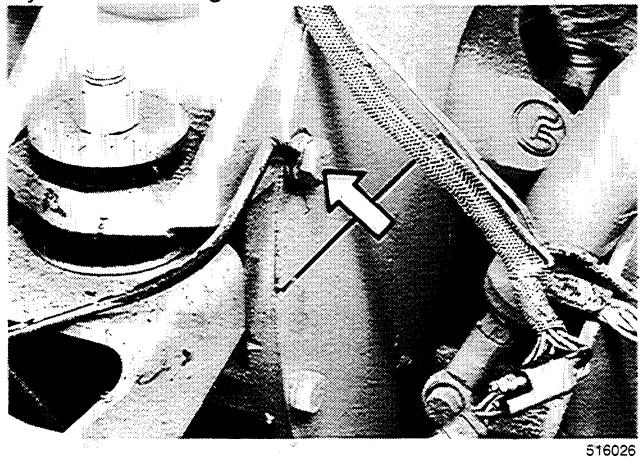
26. Loosen the clamp and disconnect the fuel supply hose from the hand primer pump. Loosen the clamp and disconnect the hose from the fuel return line.



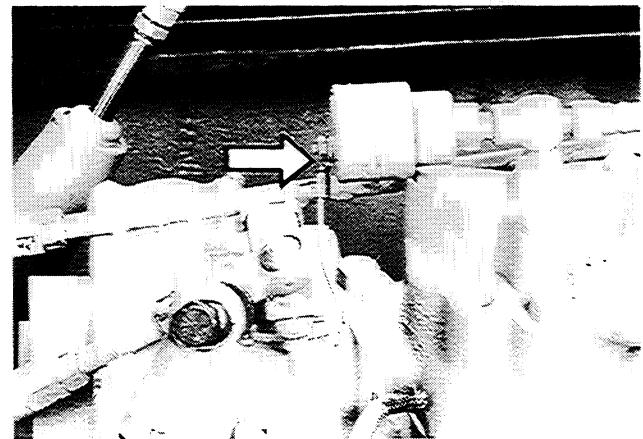
1. Fuel Supply Hose
2. Fuel Return Hose

27. Install plugs in the hoses.

28. Loosen and remove the cap screw, lock washer, and flat washer that fasten the ground wire from the bracket for the loader valve to the cover on the flywheel housing.



29. Disconnect the wire from the charge pressure switch.



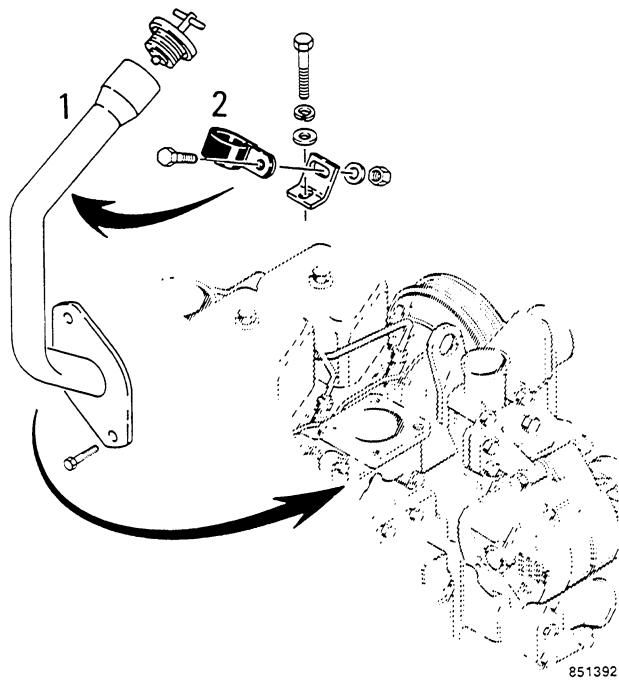
30. Disconnect the wire from the oil temperature switch.



31. Loosen and remove the self-locking nuts, flat washers, and bolts that hold the front engine mounts to the frame.



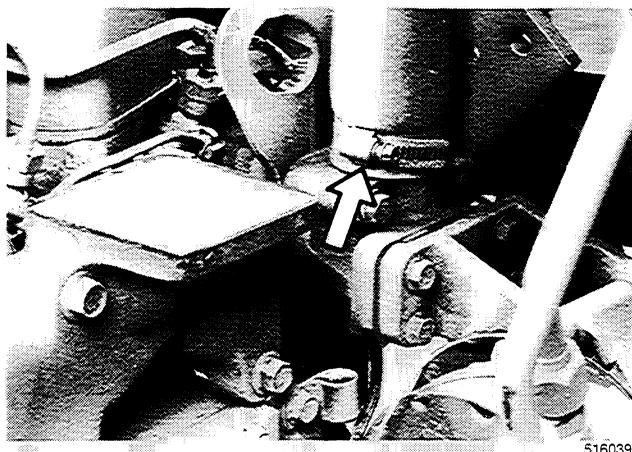
32. Loosen and remove the cap screws, self-locking nut, flat washer, and bolt that fasten the oil fill tube and the clamp for the oil fill tube to the engine. Remove the oil fill tube.



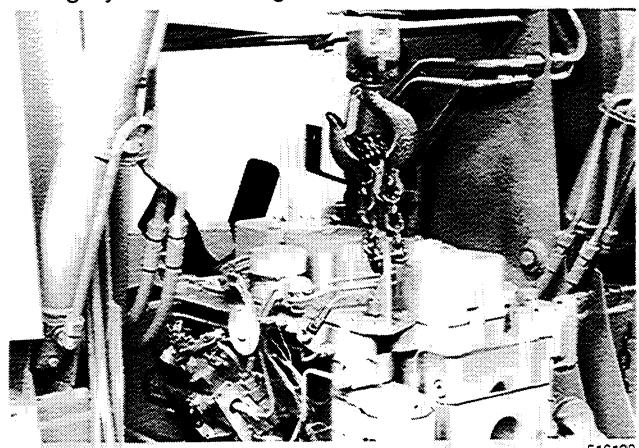
1. Oil Fill Tube

2. Clamp

33. Loosen the clamp for the top radiator hose. Remove the hose.

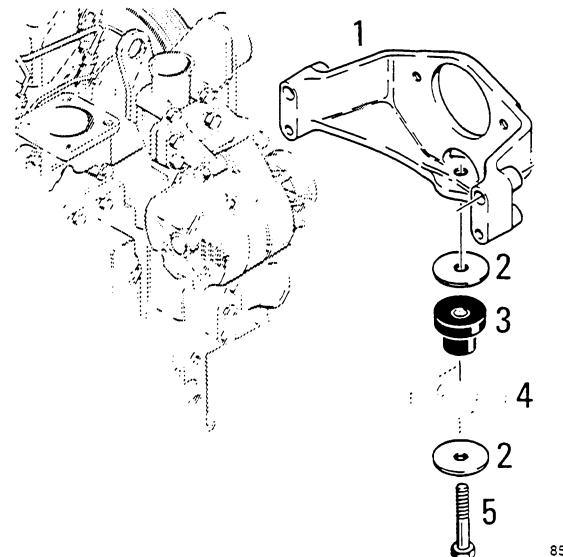


34. Connect acceptable lifting equipment to the lifting eyes on the engine.



35. Remove the access cover from the guard below the rear engine mount.

36. Loosen and remove the cap screw and flat washer that hold the rear engine mount to the frame.

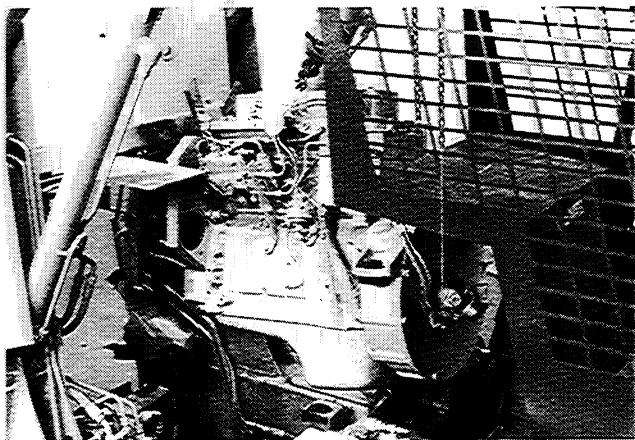


1. Rear Engine Mount
2. Flat Washer
3. Insulator

4. Frame
5. Cap Screw

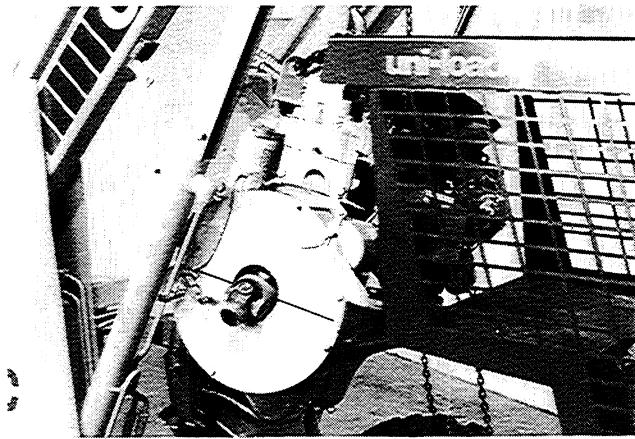
37. Move the engine toward the rear to disengage the drive coupling on the flywheel from the drive shaft on the tandem pump.

38. Raise the engine.



516215

39. Turn the engine in the direction shown and carefully raise the engine.



516213

40. Turn the engine toward the rear of the machine.

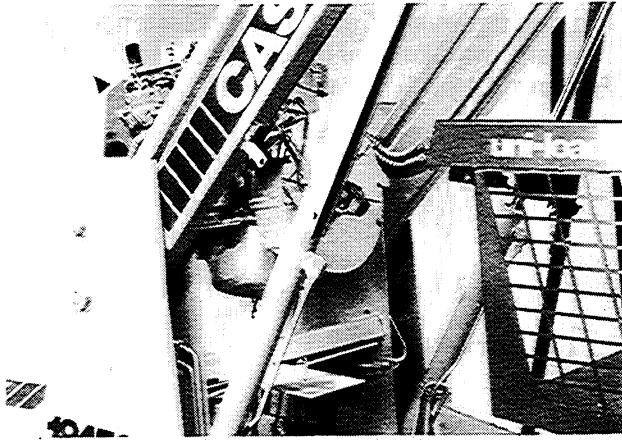


516106

Sample of manual. Download All 756 pages at

<https://www.arepairmanual.com/downloads/case-1845c-skid-steer-loader-service-repair-manual-8-42913/>

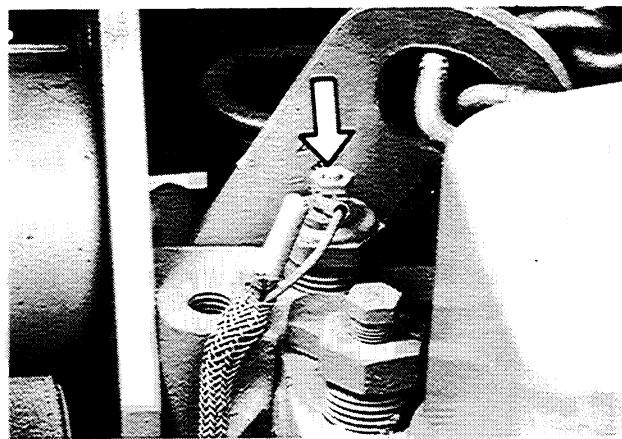
41. Remove the engine from the machine.



516104

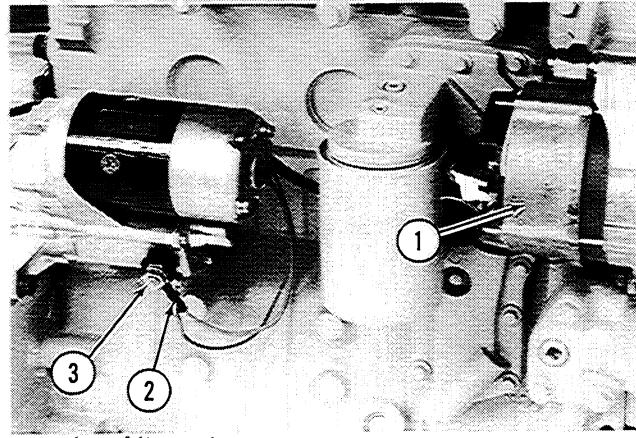
42. If necessary, remove the wiring harness from the engine.

a. Disconnect the wire from the water temperature switch at the top rear of the engine.



516137

b. Disconnect the wires from the alternator. Disconnect the plug from the alternator. Disconnect the wire from the Switch terminal and disconnect the wire from the Battery terminal on the starter solenoid.



856630

1. Alternator

2. Switch Terminal

3. Battery Terminal