1085B AND 1086B CRUZ-AIR TABLE OF CONTENTS

SERIES/SECTION	SECTION NO.	FORM NO.
1 GENERAL Safety Rules, Service Manual Introduction, and Torque Specifications		8-44360 8-44630 8-26390 8-26061
2 ENGINES Engine and Radiator Removal and Installation Engine Accessories (Air cleaner, Cold Start System, Muffler) Cylinder Head and Valve Train Cylinder Block, Pistons, Rods, Camshaft Main Bearing Oil Seals, and Flywheel Lubrication System Cooling System Turbocharger Turbocharger Failure Analysis		8-44630 8-44630 8-26071 8-26081 8-26091 8-26101 8-26110 9-78235
3 FUEL SYSTEM Fuel Lines, Fuel Tank, and Engine Controls Fuel System and Filters Bosch Fuel Injection Pump, Drive Gear, and Timing Fuel Injectors		8-44630 8-26131 8-26141 8-26150
4 ELECTRICAL Removal and Installation of Starter and Alternator Electrical System Specifications and Troubleshooting Wiring Diagrams In Pocket at Batteries Starter Alternator Collector Ring	Rear of Manual 	8-44630 8-44630 8-44630 8-42240 8-42240 8-38470
5 STEERING Steering System Troubleshooting Steering Control Valves Steering Relief Valve and Steering Reversal Valve Steering Axle and Tie Rod Auxiliary Steering		8-44630 8-44630 8-44630 8-38470 8-38480
6 POWER TRAIN Troubleshooting and Pressure Checks Torque Converter Transmission Transmission Controls Drive Shafts Axle Differential Axle Planetaries Axle Removal and and Installation Wheels and Tires		8-44630 8-44630 8-44630 8-44630 8-44630 8-38220 8-38220 8-44630 8-44630

7	BRAKES	
	Troubleshooting and Air System Schematic	8-44630
	Air Compressor and Governor	8-44630
	Air Reservoir and Relief Valve	8-44630
	Brake Valve, Relay Valve, and Pressure Reducing Valve 7105	8-44630
	Brake Actuator, Digging Brake Control Valve, and	
	Double Check Valve	8-44630
	Parking Brake Actuator, Parking Brake Valve, and	
	Quick Release Valve	8-44630
	Solenoid Valves and Air Cylinders for Transmission Range,	
	Outriggers, and Fast Crowd	8-44630
	Air Swivel	8-44630
	Alcohol Evaporator	8-44630
	Brake Shoes and Wheel Cylinders	8-38470
	Swing Brake	
8	HYDRAULICS	
÷	Removal and Installation of Hydraulic Components	8-44630
	Hydraulic System Specifications and Troubleshooting	8-44630
	Hydraulic Pump for Steering and Outside Control Valve 8205	8-44630
	Hydraulic Pump for Outrigger and Inside Control Valve 8206	8-44630
	Inside and Outside Control Valves	8-44630
	Outrigger Conrol Valve	8-44630
	Swing Motor	8-44630
	Boom Hydraulic Circuit	8-44630
	Arm Hydraulic Circuit	8-44630
	Tool Hydraulic Cicuit	8-44630
	•	8-38470
	Hydraulic Swivel8218Power Sensing Valve8221	8-38240
		8-44630
	Cylinders	0-44030
9	MOUNTED EQUIPMENT	
3		0 44000
	Controls and Linkages	8-44630
	Outriggers	8-38220
	Swing Geabox and Swing Brake	8-44630
	"E" Boom	8-38220
	"Y" Boom	8-38220
	Attachments	8-44630
	Turntable, Bearing, and Related Parts	8-44630
RE.	AR POCKET	
	Electrical Schematic	
	Hydraulic Schematic	

1001

SAFETY RULES, SERVICE MANUAL INTRODUCTION, AND TORQUE SPECIFICATIONS

TABLE OF CONTENTS

Safety Rules	1001-2
Service Manual Introduction	1001-4
Torque Specifications - U.S. Hardware	1001-5
Torque Specifications - Metric Hardware	1001-6
Torque Specifications - Steel Hydraulic Fittings	1001-7

Written	In Clear And
	Simple English
	E nglish

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

NOTE: To prevent injury on 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.





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.

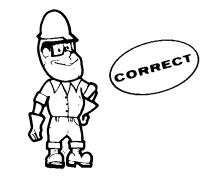
48-55

WARNING: This is a one man machine, no riders allowed. 35-8

WARNING: Before starting engine, study operator's manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating.

It is your responsibility to understand and follow manufacturer's instructions on machine operation, service, and to observe pertinent laws and regulations. Operator's and service manuals may be obtained from your J I Case dealer. 45-2

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





WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution. 35

Thanks very much for your reading, Want to get more information, Please click here, Then get the complete manual



NOTE:

If there is no response to click on the link above, please download the PDF document first, and then click on it.

Have any questions please write to me: admin@servicemanualperfect.com



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: Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service. 49-11

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

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.

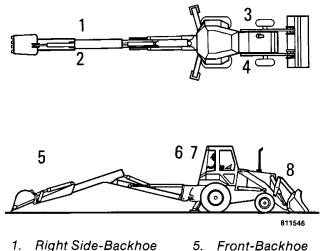
48-56

SERVICE MANUAL INTRODUCTION

This service manual has been prepared with the latest service information available. Troubleshooting, removal, disassembly, inspection and instal lation 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. Right Side-Backhoe 2. Left Side-Backhoe
- 6. Rear-Backhoe
- 3. Left Side-Machine 4. Right Side-Machine
- 7. Rear-Machine 8. Front-Machine

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 also have a Table of Contents.

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.

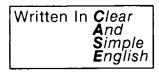
Illustrations

Illustrations are put as near as possible to the text and are to be used as part of the text.

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 than "regular" English because C.A.S.E. uses a small number of common words and has special rules for writing.

All sections written in C.A.S.E. are indicated by the symbol below.



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 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				
	$\langle - \rangle \langle$		\rangle	
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				
	$\left(\right) \left(\right)$	\times	\rightarrow	
Size	Pound- Feet	Newton metres	Kilogram metres	
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- Newton Kilogram Feet metres 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							
	י	0.9					
Size	Pound- Newton Kilogram Feet metres 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 $\sqrt{12.9}$

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	1	Newton metres	Kilogram metres
3	87 Degre	e 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

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

Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres	Kilogram metres		
Stra	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		

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1002

MAINTENANCE AND LUBRICATION

TABLE OF CONTENTS

Fluids and Lubricants	1002-2
Systemgard Lubricant Analysis Service	1002-4
Systemgard Testing Schedule	1002-4

Run-In Period	1002-5
Run-In Maintenance Schedule	1002-5
Maintenance Schedule	1002-6

-

In	Clear
	And
	Simple English
	English
	In

FLUIDS AND LUBRICANTS

FUEL TANK Capacity) litres)
Specifications	Manual
ENGINE COOLING SYSTEM	
Capacity - System	? litres)
Coolant reservoir2 quarts (1.9) litres)
Specifications	Manual
HYDRAULIC SYSTEM	
Capacity - System	litres)
Reservoir	litres)
Specifications Case TCI	l Fluid
Alternate	(10W)
TRANSMISSION/TORQUE CONVERTER	
Capacity	litres)
Specifications	H Fluid
Alternate	(10W)
SWING GEARBOX	
Capacity - Gearbox	ilitres)
Reservoir	litres)
Specifications	se FDL
Alternate	I-GL-5
AXLE (Differential)	
Capacity - Front	litres)
Rear	litres)
Specifications	se FDL
Alternate	I-GL-5
AXLE (Planetary Hubs)	
Capacity (Each)	litres)
Specifications	e FDL
Alternate	I-GL-5
BRAKE FLUID RESERVOIRS Capacity - System	litres)
Specifications	J1703)

ACCELERATOR MASTER CYLINDER
Capacity
Specifications
ALCOHOL EVAPORATOR
Capacity
Specifications Methyl Alcohol
TURNTABLE RING GEAR
QuantityAs required
Specifications
TRANSMISSION SHIFTING GUIDES
QuantityAs required
Specifications
BATTERIES
QuantityAs required
Specifications Drinking or distilled water
GREASE FITTINGS
QuantityAs required
Specifications
Capacity - Without filter change
With filter change
SpecificationsCase HDM Engine Oils

	E	ENG	INE	LU	BR	ICA	TIC	DN (СН	AR	Т			_				
		SAE 10W-30																
MULTI-VISCOSITY API CC/CD OR CD		SAE 20V						₩-4	0									
		SAE 15W-40																
											Т	_		Ş	SAE	40		
SINGLE VISCOSITY API CC/CD OR CD								İ		Γ			5	SAE	30			
APICC/CD OR CD							-	١ſ	S	AE .	201	/20						
						SAE	10	W	Τ	T	I							
AIR TEMPERATURE DURING ENGINE OPERATION	°F °C	-40	-30 -:	t				20 :	-	T	-		-	80	r	100	1	

850678



SYSTEMGARD LUBRICANT ANALYSIS SERVICE

Through this service your machine lubricants are tested in a laboratory. The results of these tests shows lubricant contamination and component wear rates. You will get service recommendations to increase the life of your machine. See your Case dealer for more information.

Systemgard Testing Schedule

Get samples of lubricants for Systemgard analysis at the intervals shown below. Follow the instructions with the Systemgard kits.

NOTE: Get your sample before you drain the lubricant.

Engine oil	Every 250 hours of operation or every oil change
Hydraulic fluid	Every 500 hours of operation or 3 times each year
Transmission fluid	Every 500 hours of operation or 3 times each year
Swing gearbox oil	Every 500 hours of operation or 3 times each year
Differential/Planetary oil	Every 500 hours of operation or 3 times each year

RUN-IN PERIOD

During the first 20 hours of operation for a new machine, or a machine with a rebuilt engine, make sure you do the following:

1. Operate the machine with normal loads for the first 8 hours.

2. Keep the engine at normal operating temperatures.

3. Do not run the engine at idle speeds for long periods of time.

4. See the Run-In Maintenance Schedule on this page for additional information.

RUN-IN MAINTENANCE SCHEDULE

The following items are to be done during the Run-In Period and are in addition to the items in the Maintenance Schedule on the following page.

Do the After Delivery Check See Operators Manual

1002-6

MAINTENANCE SCHEDULE

The items in this maintenance schedule are at maximum intervals. If you are operating the machine under severe conditions (high temperatures, mud, dust, water, etc.), shorten the intervals.

As Required	
Service air cleaner if red band in restriction indicator is in full view	See Operators Manual
Replace the hydraulic filter elements if hydraulic filter warning lamp illuminates	See Operators Manual
Check torque of wheel nuts if a wheel has been removed and installed	See Section 6129

Check air cleaner restriction indicator See Operators Manual
Check engine oil level See Operators Manual
Check condition of drive belt See Operators Manual
Check hydraulic reservoir fluid level See Operators Manual
Check transmission/torque converter fluid level See Operators Manual
Check oil level for swing gearbox reservoir See Operators Manual
Check spray lubricant can See Operators Manual
Check tires for damage and correct air pressure See Section 6129
Check and clean safety and instructional decals See Operators Manual
Check alcohol level for alcohol evaporator (if equipped) See Operators Manual
Drain water from air reservoir See Operators Manual
Lubricate
Boom, arm (dipper), and attachments (bucket, etc.)
Turntable ring gear

------ Every 50 Hours of Operation ------

Check coolant reservoir fluid level	ee Operators Manual
Check fluid level for each battery Se	ee Operators Manual
Drain any water and sediment from primary fuel filter	ee Operators Manual
Front and rear axles Check oil level for differentials and planetaries	ee Operators Manual
Master cylinders Check accelerator master cylinder fluid level	See Section 3001
Check fluid level for chassis brake master cylinders	ee Operators Manual
Clean air cleaner dust valve Se	ee Operators Manual
Clean swing gearbox breather Se	ee Operators Manual
Lubricate Turntable bearing raceway Se	ee Operators Manual
Steering cylinder	ee Operators Manual
Wheel pivot pins Se	ee Operators Manual
Front axle pivot	ee Operators Manual
Transmission bellcrank linkage Se	ee Operators Manual
Steering universal joint	ee Operators Manual
Tie rod ends Se	ee Operators Manual
Outriggers Se	ee Operators Manual
Foot pedal bellcranks Se	ee Operators Manual
Drive shaft universal joints Se	ee Operators Manual
Upper and lower shifting guide rods Se	ee Operators Manual
Axle oscillation lock pivots Se	ee Operators Manual

------ Every 250 Hours of Operation ------

.

Systemgard testing schedule	See page 1002-4
Change engine oil and oil filter	See Operators Manual
Check radiator coolant level	See Operators Manual
Check swing brake for correct operation	See Operators Manual
Check torque for turntable bearing cap screws	See Section 9216
Lubricate both control lever pivots	See Operators Manual
Lubricate top of hydraulic and air swivel	See Operators Manual
Check and clean collector ring	See Section 4016
Check torque for swing gearbox mounting bolts	See Section 9210
Every 500 Hours of O	peration ————
Systemgard testing schedule	See page 1002-4
Replace fuel filters	See Operators Manual
Hydraulic system Clean reservoir breather	
	See Operators Manual
Replace filter elements	
Replace filter elements	See Operators Manual
Replace transmission filter element	See Operators Manual
Replace transmission filter element	See Operators Manual See Operators Manual Operation
Replace transmission filter element	Deration See Operators Manual

Every 1500 Hours of Operation

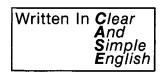
Change swing gearbox oil	See Operators Manual
Hydraulic system Change fluid	See Operators Manual
Clean reservoir screen	See Operators Manual
Clean inline screens	See Operators Manual
Front and rear axles Clean breathers for differentials	See Operators Manual
Change oil for differentials and planetaries	See Operators Manual
Check propane heater (if equipped)	See Section 4018
Every 3000 Hours of Operation of Each Year	J

Whichever Occurs First

Clean cooling system	. See Operators Manual
Clean alcohol evaporator	See Section 7111
Overhaul brake relay valve	See Section 7105

Section 1010

GENERAL ENGINE SPECIFICATIONS



IMPORTANT: This engine was made using the metric measurement system. All measurements and checks must be made with metric tools to make sure of an accurate reading when inspecting parts.

CASE CORPORATION