Full download: http://manualplace.com/download/case-580-super-e-loader-backhoe-tractor-service-manual/

TRACTOR-MANUALS-UK.COM

CASE 580E SUPER LOADER BACKHOE SERVICE MANUAL

580 SUPER E LOADER BACKHOE TRACTOR-MANUALS-UK. JABLE OF CONTENTS

| DIV | ISION/SECTION | SECTION NO. | FORM NO. |
|-----|--|-------------|----------|
| 1 | GENERAL Safety Rules, and Service Manual Introduction | | |
| | and Torque Specifications | 1001 | 8-41700 |
| | Maintenance and Lubrication | | 8-41700 |
| | General Engine Specifications | 1010 | 8-24621 |
| | Detailed Engine Specifications | 1024 | 8-24161 |
| 2 | ENGINES | **** | |
| | Engine Stall Tests | | 8-41700 |
| | Engine Removal and Installation | | 8-41701 |
| | Radiator, Cold Start System) | 2002 | 8-41701 |
| | Cylinder Head and Valve Train | | 8-24171 |
| | Oil Seals, and Flywheel | 2425 | 8-24181 |
| | Lubrication System | | 8-24191 |
| | Cooling System | 2455 | 8-24201 |
| | Turbocharger | 2465 | 8-25550 |
| | Turbocharger Failure Analysis | 2565 | 9-78235 |
| 3 | FUEL SYSTEM | | |
| | Engine Controls, Fuel Lines, and Fuel Tank | | 8-41700 |
| | Fuel System and Filters | | 8-24211 |
| | Fuel Injection Pump and Drive Gear | | 8-27080 |
| | Fuel Injectors | ., | 8-24231 |
| 4 | ELECTRICAL Electrical Specifications and Troubleshooting | 4000 | 8-41701 |
| | Wiring Diagrams | | 8-41701 |
| | Battery | | 8-41700 |
| | Starter and Starter Solenoid | | 8-42910 |
| | Alternator | | 8-41700 |
| | Instrument Cluster and Gauges | | 8-41700 |
| 5 | STEERING | | |
| | Steering System Troubleshooting | 5002 | 8-41700 |
| | Steering Control Valve and Steering Column | | 8-41702 |
| | Steering Cylinders | | 8-41700 |
| | Front Axle - Two-Wheel Drive Machines | | 8-41701 |
| | Front Axle - Four-Wheel Drive Machines | | 8-41701 |
| | Steering Relief Valve | | |
| 6 | POWER TRAIN | | |
| | Power Shuttle Maintenance, Operation, and Trout | | 8-41701 |
| | Power Shuttle and Torque Converter | | 8-4170C |
| | Power Shuttle Controls | 6211 | 9-69271 |
| | Transaxle Removal and Installation | | 8-41700 |
| | Transaxle and Differential Lock | | 8-22911 |
| | Transfer Gear Box | | 8-23451 |
| | Driveshaft | | 8-41700 |
| | Wheels and Tires | 6229 | 8-41700 |





| DIVISION/SECTION | SECTION NO. | FORM NO. |
|---|--|---|
| 7 BRAKES Brake Pedals and Linkage, Master Cylinder, Parking Brake | 7106 | 8-41700 8-22921 |
| Hydraulic Specifications, Maintenance, Trouse Flowmeter Tests, and Pressure Checks Cleaning the Hydraulic System | 8002 8003 8005 8006 fin 8007 Couplings 8008 8009 8090 | 8-41702 9-69271 9-69270 8-41700 8-69272 8-41700 8-41700 8-41700 9-69271 |
| 9 MOUNTED EQUIPMENT/CHASSIS Air Conditioning Troubleshooting Air Conditioning System Loader Three Point Hitch ROPS Cab and ROPS Canopy Seats, Seat Belts, and Seat Supports Backhoe Decals and Painting | | 9-69270 9-69270 8-41700 8-41700 8-41700 8-41701 8-41701 |

1001

SAFETY RULES SERVICE MANUAL INTRODUCTION AND TORQUE SPECIFICATIONS

TABLE OF CONTENTS

| Safety Rules 1001-2 | Grade 5 Bolts, Nuts, and Studs 1001-6 |
|------------------------------------|---------------------------------------|
| Service Manual Introduction 1001-4 | Grade 8 Bolts, Nuts, and Studs 1001-6 |
| Product Identification Number | Steel Hydraulic Fittings 1001-7 |
| (PIN) and Serial Numbers 1001-5 | Split Flange Mounting Bolts 1001-7 |
| Torque Specifications 1001-6 | 100 E) E |

Written In Clear And Simple English



SAFETY RULES



This Symbol Shows Important Information About Safety In This Manual. When You See This Symbol, Carefully Read The Information That Follows and Understand The Possible Causes of Injury Or Death. 1-1-A

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.





780449



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 - 5



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.





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

835102



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.



WARNING: DO NOT, for any reason, weld the cast front axle. Welding will cause failure of the cast front axle and result in personal injury.

49-19

WARNING: DO NOT, for any reason, weld the following parts.

Cast front axle



Swing tower Support for swing cylinders Stabilizer leg

Cast stabilizer foot Bucket links, loader or backhoe Welding will cause failure of the part and result in personal injury. 49-20 A

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 time. 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.

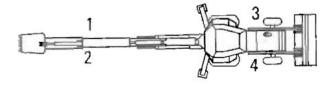
40-10

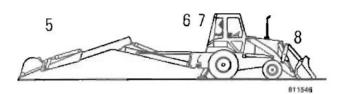
SERVICE MANUAL INTRODUCTION

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. Right Side-Backhoe
- Left Side-Backhoe
- 3. Left Side-Machine
- 4. Right Side-Machine
- 5. Front-Backhoe
- 6. Rear-Backhoe
- 7. Rear-Machine
- 8. Front-Machine

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

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

Special Tools

Special tools are needed to remove and install, disassemble and assemble, check, and adjust some components 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.

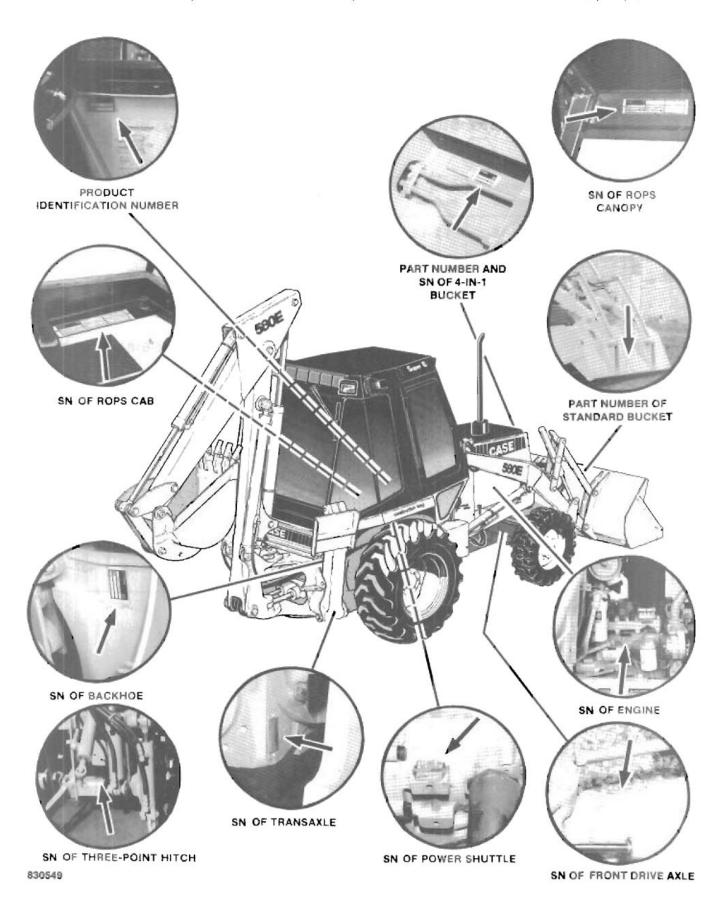
Order special tools from either of the following companies:

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, pumps, 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 | 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 | • |
|-------------------------|----------------|------------------|-------------------------|
| 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 | 2 52-27 7 |
| 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 - STEEL HYDRAULIC FITTINGS

| | 1 | | | |
|---------------------|----------|---------|---------|-----------|
| 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 |

| 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 | |

811361A

1002

MAINTENANCE AND LUBRICATION

TABLE OF CONTENTS

| Fluids and Lubricants | 1002-2 |
|-------------------------|--------|
| Maintenance Chart | 1002-3 |
| Coolant Recovery System | 1002-6 |

Written In Clear And Simple English





FLUIDS AND LUBRICANTS

| COMPONENT | PONENT CAPACITY | | SPECIFICATIONS |
|---|--|----------------------------|---|
| | U.S. | METRIC | |
| Fuel tank | 26.5 gallons | 100 litres | See Operators Manual |
| Engine crankcase With filter change | 11 quarts | 10.4 litres | Recommended Engine Oil: Above 30°F (-1°C) SAE 20W-40 CC, CD Above 10°F (-12°C) SAE 15W-40 CC, CD Below 90°F (32°C) SAE 10W-30 CC, CD Aternate Engine Oil: Above 50°F (10°C) SAE 40 CC, CD Above 39°F (4°C) SAE 30 CC, CD 23° to 68°F (-5° to 20°C) SAE 20W20 CC, CD Below 32°F (0°C) SAE 10W CC, CD |
| Cooling system With heater Without heater | 18.9 quarts 18.2 quarts | 17.9 litres 17.2 litres | Mix ethylene glycol with water for the lowest ambient temperature expected. The mixture must be half ethylene glycol and half water. |
| Hydraulic reservoir System capacity with loader/backhoe | 12.5 gallons 23.75 gallons | 47.3 litres 89.9 litres | Case TCH Fluid |
| Power shuttle | 8 quarts | 7.6 litres | Case TCH Fluid |
| Transaxie | 20 quarts | 18.9 litres | Case FDL Fluid Alternate oil: Gear Lubricant (API-GL-4) Above 0°F (-18°C) |
| Front drive axle Center bowl Planetary ends (each) | 7 quarts 1.5 quarts | 6.6 litres 1.4 litre | Case FDL Fluid |
| Transfer case (Four wheel drive) | 1 pint | 0.5 litre | Case FDL Fluid |
| Brake master cylinders | as req | uired | Case TCH Fluid |
| | NOTE: Late productions have master that are connected draulic system. Se 7106. | to the hy- | WARNING: DO NOT use DOT 3 brake fluid. DOT 3 brake fluid will damage the cups in the master cylinders and brake cylinders. Damage to the brake system can cause personal injury or death. 49-13 |
| Parking Brake cable | as req | uired | Lubriplate 105 grease. |
| Battery | as req | uired | Add drinking water or distilled water. |
| Grease fittings | as req | uired | No. 2 Molydisulfide grease. |
| Wheel bearings | as req | uired | Wheel Bearing Grease. |

MAINTENANCE CHART

This chart shows maximum service intervals for the correct maintenance of the machine. Some operating conditions will make it necessary to shorten the service intervals.

| INTERVAL | SERVICE | INSTRUCTIONS |
|--|--|-------------------|
| After the first 2 hours of operation, new machine only | Tighten the wheel bolts. | Section 6229. |
| After the first 10, 20, 50, 100, and 200 hours of operation. | Tighten the tension rod nuts for the backhoe. | Section 9100. |
| new machine only | Tighten the lower swing pivot nut for the backhoe. | Section 9100. |
| After the first 20 hours of operation, new machine only | Do the After Delivery Check. | Operators Manual. |
| Every 10 hours of operation or each | Lubricate the loader and backhoe pivot points. | Operators Manual. |
| day, whichever occurs first | Lubricate the dipper extension, if equipped. | Operators Manual. |
| | Check the level of the engine oil. | |
| Every 50 hours of operation | Lubricate the three point hitch pivot points, if equipped. | Operators Manual. |
| | Check the first stage fuel filter for water or sediment. | Operators Manual. |
| | Check the level of the oil in the power shuttle. | Operators Manual. |
| | Check the level of the coolant in the coolant reservoir. | Page 1002-6. |
| | Check the level of the oil in the reservoir. | Section 8002. |
| | Lubricate the front axle king pins. | Operators Manual. |
| | Lubricate the front axle pivot. | Operators Manual. |
| Every 100 hours of Operation | Lubricate the parking brake cross shaft. | Operators Manual. |
| e postantist. | Lubricate the tie rod ends. | Operators Manual. |
| | Lubricate the rear axle bearings. | Operators Manual. |
| | Check the air pressure and condition of the tires. | Section 6229. |
| | Check the level of the oil in the transaxle. | Section 6212. |

| INTERVAL | SERVICE | INSTRUCTIONS |
|--|---|--------------------------------|
| Every 100 hours of Check the level of the oil in the transfer operation(Con't.) case, if equipped. | | Operators Manual |
| | Clean the spark arrester muffler. if equipped. | Section 2002. |
| Every 250 hours of | Lubricate the seat post. | Operators Manual |
| operation | Lubricate the cable for the parking brake. | Operators Manual |
| | Lubricate the pivots for the brake pedals. | Operators Manual |
| | Lubricate the front and rear pivots for the front drive axle, if equipped. | Operators Manual |
| | Check the level of the oil in the center bowl and planetaries of the front drive axle, if equipped. | Operators Manual |
| | Clean the breather for the front drive axle, if equipped. | Operators Manual |
| | Clean the breather for the transfer case, if equipped. | Operators Manual |
| | Clean the battery. | Section 4005. |
| | Check the level of the fluid in the low maintenance battery. | Section 4005 |
| | Check the tension of the drive belt for the air conditioner compressor. | Section 9003. |
| | Check the operation of the air conditioning system. | Section 9002 |
| | Tighten the nuts on the backhoe tension rods. | Section 9100. |
| | Change the engine oil. | Operators Manual |
| | Replace the filter for the engine oil. | Operators Manual |
| | Check the level of the fluid in the brake master cylinders. (Not necessary for master cylinders with clamp retainers. | See WARNING on page 1002-2. |
| | Check the level of the coolant in the radiator. | Page 1002-6. |
| Every 500 hours of operation | Lubricate the universal joints and the slip joint on the front and rear drive shaft. | Operators Manual |
| | Lubricate the pivot for the transfer case control lever, if equipped. | Operators Manual |

| INTERVAL | SERVICE | INSTRUCTIONS |
|---|--|-----------------------------------|
| Every 500 hours of operation (Con't.) | Lubricate the coupling for the pump drive shaft. | Operators Manual. |
| | Lubricate the pivots for the loader control lever. | Operators Manual. |
| | Lubricate the pivots for the backhoe control levers. | Operators Manual. |
| | Lubricate the front wheel bearings. | Section 5021. |
| | Lubricate the king pins (4) for the front drive axle, if equipped. | Operators Manual. |
| | Replace the fuel filters. | Section 3410. |
| | Replace the filter for the hydraulic system. | Section 8002 |
| Every 1000 hours of operation | Check the level of the fluid in the maintenance free battery. | Section 4005 |
| | Service the ROPS cab air filter. | Section 9061 |
| | Drain water and sediment from the fuel tank. | Operators Manual. |
| | Change the oil in the power shuttle. | Section 6202. |
| | Clean the screen in the power shuttle. | Section 6202. |
| | Change the hydraulic oil. | Section 8002, |
| | Change the gear lubricant in the transaxle | Section 6212 |
| | Change the gear lubricant in the front drive axle, if equipped. | Operators Manual. |
| | Change the gear lubricant in the transfer case, if equipped. | Operators Manual. |
| Every 2000 hours of operation or each year whichever occurs first | Flush the cooling system. | Fluids and Lub- ricants chart. |
| Every 4000 hours of operation | Replace the drive belt for the fan and the alternator. | |
| | Inspect the fuel injection pump. | Section 3412. |
| | Inspect the fuel injection nozzles. | Section 3413. |
| As required | Service the air cleaner when the warning lamp for the air cleaner stays illuminated during operation. | Section 2002. |
| | Replace the filter for the hydraulic system when the warning lamp for the filter stays illuminated during operation. | Section 8002. |

| INTERVAL | SERVICE | INSTRUCTIONS |
|-------------|--|---------------|
| As required | Tighten the wheel bolts every two hours until the wheel bolts stay tight or whenever a wheel is removed and installed. | Section 6229. |
| | Tighten the nuts on the tension rods for the backhoe every two hours until the nuts stay tight, and when installing the backhoe or new mounting parts. | Section 9100 |
| | Adjust the parking brake. | Section 7106. |

COOLANT RECOVERY SYSTEM

50 Hour Check

Check the level of the coolant in the reservoir when the engine is cold. If the coolant is below the ADD mark, add a mixture that is half ethylene glycol and half water. If protection against freezing below -34° F (-37°C) is required, use more ethylene glycol.

250 Hour Check

Check the level of the coolant in the radiator when the engine is cold. If the coolant is not even with the opening in the radiator, add a mixture of coolant according to instructions for the 50 Hour Check.

If the level of the coolant in the radiator is low, the reservoir has not been kept full, there is a leak in the coolant recovery system, or a leak in the cooling system.

Section 1010

GENERAL ENGINE SPECIFICATIONS 580 SUPER E TRACTORS

Written In Clear And Simple English

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





¹⁰¹⁰⁻²TRACTOR-MANUALS-UK.COM

ENGINE SPECIFICATIONS

General

| | Type 4 Cylinder, 4 Stroke Cycle, Valve-In-Head Firing Order 1,3,4,2 Bore 102 mm Stroke 120 mm Piston Displacement 3.92 Litres Compression Ratio (Prior to Engine Serial No. 44117591) 18.5 to 1 Compression Ratio (Serial No. 44117591 and After) 17.0 to 1 Compression Ratio (Turbocharged Engines) 17.5 to 1 No Load Governed Speed 2345 to 2440 RPM Rated Engine Speed 2305 to 2385 RPM Engine Idle Speed 850 to 900 RPM Valve Tappet Clearance (Exhaust)(Cold) 0.508 mm (Intake)(Cold) 0.254 mm Thermostat Operating Range 181°F to 203°F (83°C to 95°C) |
|---|--|
| | Piston and Connecting Rods |
| | Rings Per Piston 3 Number of Compression Rings 2 Number of Oil Rings (two piece) 1 Type of Pins Full Float Type Bearings Steel Back Leaded Bronze |
| | Main Bearings |
| | Number of Bearings |
| | Engine Lubricating System |
| | Oil Pressure 42 to 54 PSI (290 to 372 kPa) (2.90 to 3.72 bar) with Engine Warm at Rated Engine Speed Type of System Pressure and Spray Lubrication Oil Pump Rotor Type Oil Filter Full Flow Turn on Type Oil Capacity (with filter) 11 Quarts (10.4 litres) (without filter) 10 Quarts (9.5 litres) |
| | Fuel System |
| ; | Fuel Injection Pump CAV Pump Timing Top Center Fuel Injectors Bosch 17 mm Opening Pressure (New) 3190 to 3310 PSI (21 994 to 22 821 kPa)(220 to 228 Bar) Governor Variable Speed, a Part of the Injection Pump First Stage Fuel Filter Turn on Type Second Stage Fuel Filter Turn on Type Lift Pump 5 to 7 PSI (34 to 48 kPa)(0.34 to 0.48 Bar) |
| | -11.1 dily 1.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 |

NOTE: The J1 Case Company 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.

Section 1024

SPECIFICATION DETAILS

Written In Clear And Simple English

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 580 Super E Loader Backhoe Tractor Service Manual

Full download: http://manualplace.com/download/case-580-super-e-loader-backhoe-tractor-service-manual/

1024-2TRACTOR-MANUALS-UK.COM

TABLE OF CONTENTS

| RUN-IN INSTRUCTIONS | 3 |
|---|---|
| ENGINE SPECIFICATION DETAILS Cylinder Block | 1 |
| Service Cylinder Sleeve 4 | 4 |
| Piston 4 | í |
| Piston Pin4 | 4 |
| Piston Rings | 5 |
| Cylinder Head | 5 |
| Tappets 5 | 5 |
| Connecting Rod5 | 5 |
| Crankshaft 6 | 5 |
| Camshaft | č |
| Valve Push Rod Lifters | í |
| Gear Train 7 | 7 |
| Rocker Arm Assembly | č |
| Turbocharger 7 | ř |
| Intake Valve 6 | 1 |
| Exhaust Valve 8 | 3 |
| Valve Springs 8 | 3 |
| SPECIAL TORQUES | |