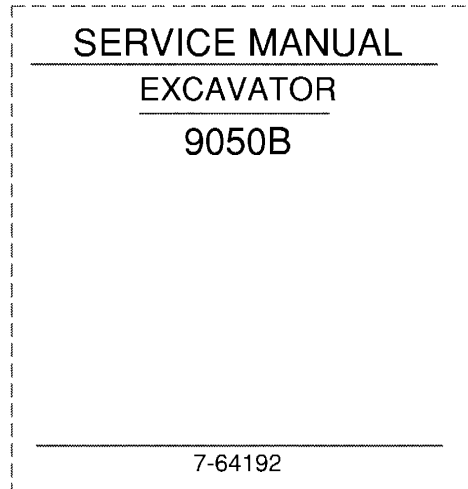


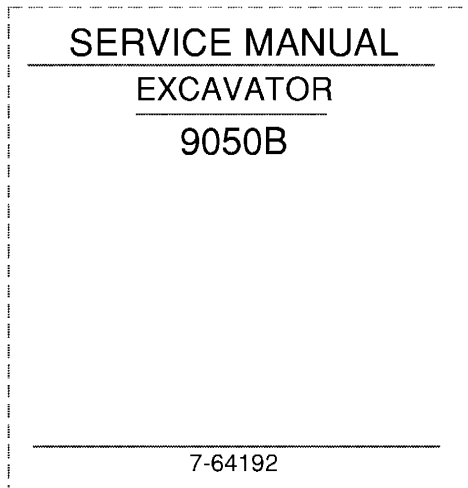
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



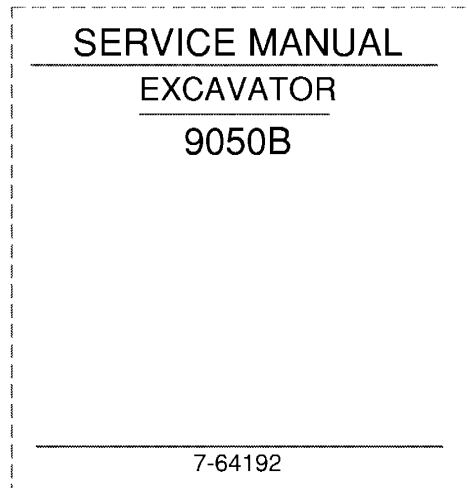
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

9050B Excavator

Service Manual No. 7-64192

Table of Contents

| Description | Section No. | Form No. |
|---|----------------|----------|
| General | Tab 1 | |
| Loctite Product Chart | | 8-98900 |
| Safety, General Information and Torque Specifications | 1001 | 7-62010 |
| Specifications | 1002 | 7-64280 |
| Engines | Tab 2 | |
| Engine | 2000 | 7-64680 |
| Radiator, Oil Cooler and Cooling System Reservoir | 2001 | 7-64580 |
| Fuel System | Tab 3 | |
| Fuel Tank, Filters and Lines | 3001 | 7-64490 |
| Electrical | Tab 4 | |
| Electrical Specifications and Troubleshooting | 4001 | 7-63690 |
| Electrical Schematic Foldout | In Rear Pocket | 7-15340 |
| Battery Testing, Maintenance and Booster Battery Connections | 4002 | 7-64500 |
| Controller | 4003 | 7-62070 |
| Tracks | Tab 5 | |
| Tracks, Rollers and Idlers | 5002 | 7-64560 |
| Power Train | Tab 6 | |
| Drive Motor and Final Drive Transmission | 6002 | 7-64690 |
| Swing Motor and Swing Reduction Gear | 6003 | 7-64570 |
| Hydraulics | Tab 8 | |
| Cleaning the Hydraulic System | 8000 | 7-64510 |
| Hydraulic Specifications, Troubleshooting and Pressure Checks | 8001 | 7-63700 |
| Hydraulic Schematic Foldout | In Rear Pocket | 7-15340 |
| Main Hydraulic Pump | 8002 | 7-64590 |
| Main Hydraulic Control Valve | 8003 | 7-64600 |
| Cylinders | 8004 | 7-64700 |
| Hand Control Valves, Foot Left and Right Travel Control Valves, Shuttle Valve and Accumulator | 8005 | 7-64520 |
| Eight Spool Solenoid Valve, Swing Lock and Swing Brake Solenoid Valve | 8006 | 7-64530 |
| Cushion Control Valve | 8007 | 7-64540 |
| Auxiliary Hydraulics | 8008 | 7-62180 |
| Hydraulic Reservoir Pressurization System | 8009 | 7-64710 |
| Hydraulic Pilot Filter, Hydraulic Inline Filter and Bypass Oil Filter | 8011 | 7-64550 |
| Hydraulic Swivel | 8013 | 7-64610 |

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Rac 7-52701

| Description | Section No. | Form No. |
|---|-------------|----------|
| Mounted Equipment | Tab 9 | |
| Upper Structure and Counterweight | 9002 | 7-64720 |
| Boom, Arm and Bucket | 9003 | 7-64730 |
| Operators Seat, Operators Seat Bracket and Seat Belts | 9004 | 7-62260 |
| Cab and Cab Equipment | 9005 | 7-62270 |
| Air Conditioner Troubleshooting and System Checks | 9006 | 7-62280 |
| Air Conditioner Components Removal and Installation | 9008 | 7-62300 |
| Air Conditioner Components | 9009 | 7-62310 |

LOCTITE PRODUCT CHART

| Product | Color | Similar Products | Gap (In Inches) | Strength (Steel/Steel) | Working Temperature Range-Fahrenheit | Fixture/Full Cure (Steel/Steel) Time | Primer | Description |
|---------|-------------|------------------|-----------------|------------------------|--------------------------------------|--------------------------------------|--------|--|
| #3 | Dark Brown | | | | | 24 hr | N/A | Form a Gasket (works with oil, fuel or grease) Pliable |
| 80 | Yellow | | | | | Fast | N/A | Weatherstrip Adhesive |
| 123 | Clear | | | | | N/A | N/A | Parts Cleaner Fluid |
| 220 | Blue | 290 | 0.003 | 57/143 in lbs | -65 to +250 | 6 min/24 hrs | 747 | Wicking Threadlocker |
| 221 | Purple | 222 | 0.005 | 75/44 in lbs | -65 to +300 | 2 min/24 hrs | 747 | Low Strength Threadlocker |
| 222 | Purple | | 0.005 | 53/30 in lbs | -65 to +300 | 20 min/24 hrs | 764 | Low Strength Threadlocker (Small Screws) |
| 225 | Brown | 222 | 0.010 | 45/25 in lbs | -65 to +300 | 7 min/24 hrs | 747 | Low Strength Threadlocker |
| 242 | Blue | | 0.005 | 80/50 in lbs | -65 to +300 | 10 min/24 hrs | 764 | Medium Strength Threadlocker |
| 262 | Red | 271 | 0.005 | 160/190 in lbs | -65 to +300 | 5 min/24 hrs | 747 | High Strength Threadlocker |
| 270 | Green | 271 | 0.007 | 160/320 in lbs | -65 to +300 | 3 min/24 hrs | 747 | High Strength Threadlocker |
| 271 | Red | 262 | 0.007 | 160/320 in lbs | -65 to +300 | 10 min/24 hrs | 764 | High Strength Threadlocker |
| 272 | Red | 620 | 0.007 | 180/220 in lbs | -65 to +450 | 30 min/24 hrs | 764 | High Temperature, High Strength |
| 275 | Green | 277 | 0.010 | 210/300 in lbs | -65 to +300 | 3 min/24 hrs | 747 | High Strength Threadlocker |
| 277 | Red | | 0.010 | 225/300 in lbs | -65 to +300 | 60 min/24 hrs | 764 | High Strength Threadlocker |
| 290 | Green | | 0.003 | 85/350 in lbs | -65 to +300 | 6 min/24 hrs | 764 | Wicking Threadlocker |
| *404 | Clear | 495 | 0.006 | 3200 psi | -65 to +180 | 30 sec/24 hrs | NA | Instant Adhesive |
| *406 | Clear | | 0.004 | 3200 psi | -65 to +180 | 15 sec/24 hrs | N/A | Surface Insensitive Adhesive |
| *409 | Clear | 454 | 0.008 | 2500 psi | -65 to +180 | 50 sec/24 hrs | N/A | Gel Instant Adhesive |
| *414 | Clear | | 0.006 | 2500 psi | -65 to +180 | 30 sec/24 hr | N/A | Instant Adhesive |
| *415 | Clear | 454 | 0.010 | 2500 psi | -65 to +180 | 50 sec/24 hrs | N/A | Gap Filling Instant Adhesive (Metals) |
| *416 | Clear | 454 | 0.010 | 2500 psi | -65 to +180 | 50 sec/24 hrs | N/A | Gap Filling Instant Adhesive (Plastics) |
| *420 | Clear | | 0.002 | 2500 psi | -65 to +180 | 15 sec/24 hrs | N/A | Wicking Instant Adhesive |
| *422 | Clear | 454 | 0.020 | 2800 psi | -65 to +180 | 60 sec/24 hrs | N/A | Gap Filling Instant Adhesive |
| *430 | Clear | | 0.005 | 2500 psi | -65 to +180 | 20 sec/24 hrs | N/A | Metal Bonding Adhesive |
| *445 | White/Black | | 0.250 | 2000 psi | -65 to +180 | 5 min/24 hrs | N/A | Fast Setting 2 Part Epoxy |
| *454 | Clear | | 0.010 | 3200 psi | -65 to +180 | 15 sec/24 hrs | N/A | Surface Insensitive Gen Instant Adhesive |
| *495 | Clear | | 0.004 | 2500 psi | -65 to +180 | 20 sec/24 hrs | N/A | General Purpose Instant Adhesive |
| *496 | Clear | | 0.005 | 2500 psi | -65 to +180 | 20 sec/24 hrs | N/A | Metal Bonding Adhesive |
| 504 | Brt Orange | 515 | 0.030 | 750 psi | -65 to +300 | 90 min/24 hrs | None | Rigid Gasket Eliminator |
| 509 | Light Blue | | 0.020 | 750 psi | -65 to +320 | 6 hr/72 hrs | 764 | Flange Sealant |
| 510 | Red | | 0.020 | 1000 psi | -65 to +400 | 30 min/24 hrs | 764 | High Temperature, Gasket Eliminator |
| 515 | Purple | | 0.010 | 750 psi | -65 to +300 | 1 hr/24 hrs | 764 | Gasket Eliminator 515 |

Rac 8-98902 * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity

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LOCTITE PRODUCT CHART

| Product | Color | Similar Products | Gap (In Inches) | Strength (Steel/Steel) | Working Temperature Range-Fahrenheit | Fixture/Full Cure (Steel/Steel) Time | Primer | Description |
|---------|--------|------------------|-----------------|------------------------|--------------------------------------|--------------------------------------|--------|--|
| 518 | Red | 515 | 0.030 | 500psi | -65 to +300 | 1 hr/24 hrs | 764 | Gasket Eliminator 518 for Aluminum |
| 542 | Brown | 569 | N/A | 132/92 in lbs | -65 to +300 | 2 hr/24 hrs | 747 | Hydraulic Sealant |
| 545 | Purple | | N/A | 25/20 in lbs | -65 to +300 | 4 hr/24 hrs | 747 | Low Strength Pneumatic/Hydraulic Sealant |
| 549 | Orange | 504 | 0.020 | 2500 psi | -65 to +300 | 2 hr/24 hrs | 747 | Instant Seal Plastic Gasket |
| 554 | Red | 277 | 0.015 | 240/240 in lbs | -65 to +300 | 2 to 4 hrs/24 hrs | 764 | Refrigerant Sealant |
| 567 | White | 592 | N/A | 500 psi | -65 to +400 | 4 hrs/24 hrs | 764 | Pipe Sealant for Stainless Steel |
| 568 | Orange | 277 | 0.015 | 2500 psi | -65 to +300 | 12 hrs/24 hrs | 764 | Plastic Gasket |
| 569 | Brown | 545 | 0.010 | 40/25 in lbs | -65 to +300 | 1 hr/24 hrs | 764 | Hydraulic Sealant |
| 570 | Brown | 592 | N/A | 25/40 in lbs | -65 to +300 | 6 hrs/72 hrs | 764 | Steam Sealant |
| 571 | Brown | 592 | 0.015 | 40/20 in lbs | -65 to +300 | 2 to 4 hrs/24 hrs | 764 | Pipe Sealant |
| 572 | White | 578.575 | N/A | 80/27 in lbs | -65 to +300 | 24 hrs/72 hrs | None | Gasketing |
| 592 | White | | 0.020 | 500 psi | -65 to +400 | 4 hrs/72 hrs | 736 | Pipe Sealant with Teflon |
| 593 | Black | | 0.250 | 400 psi | -95 to +400 | 30 min/24 hrs | N/A | RTV Silicone |
| 601 | Green | 609 | 0.005 | 3000 psi | -65 to +300 | 10 min/24 hrs | 764 | Current PIN #609 |
| 609 | Green | | 0.005 | 3000 psi | -65 to +300 | 10 min/24 hrs | 764 | General Purpose Retaining Compound |
| 620 | Green | 640 | 0.015 | 3000 psi | -65 to +450 | 30 min/24 hrs | 747 | High Temperature Retaining Compound |
| 635 | Green | 680 | 0.010 | 4000 psi | -65 to +300 | 1 hr/24 hrs | 747 | High Strength Retaining Compound |
| 638 | Green | 680 | 0.015 | 4100 psi | -65 to +300 | 10 min/24 hrs | 747 | High Strength Retaining Compound |
| 640 | Green | 620 | 0.007 | 3000 psi | -65 to +400 | 1 hr/24 hrs | 747 | High Temperature Retaining Compound |
| 660 | Silver | | 0.020 | 3000 psi | -65 to +300 | 20 min/24 hrs | 764 | Quick Metal |
| 675 | Green | 609 | 0.005 | 3000 psi | -65 to +300 | 20 min/24 hrs | 747 | General Purpose Retaining Compound |
| 680 | Green | 635 | 0.015 | 4000 psi | -65 to +300 | 10 min/24 hrs | 747 | High Strength Retaining Compound |
| 706 | Clear | 755 | N/A | N/A | N/A | N/A | N/A | Cleaning Solvent |
| 707 | Amber | | N/A | N/A | N/A | N/A | N/A | Activator for Structural Adhesives |
| 736 | Amber | | N/A | N/A | N/A | N/A | N/A | Primer NF |
| 738 | Amber | | N/A | N/A | N/A | N/A | N/A | Depend Activator |
| 747 | Yellow | N/A | N/A | N/A | N/A | N/A | N/A | Primer T |
| 751 | Clear | | N/A | N/A | N/A | N/A | N/A | Activator for Structural Adhesives |
| 755 | Clear | | N/A | N/A | N/A | N/A | N/A | Cleaning Solvent |
| 764 | Green | | N/A | N/A | N/A | N/A | N/A | Primer N |
| 767 | Silver | | N/A | N/A | -65 to +1600 | N/A | N/A | Anti-Seize Lubricant |

Section 1001

SAFETY, GENERAL INFORMATION AND TORQUE SPECIFICATIONS

TABLE OF CONTENTS

| | |
|--|---|
| SAFETY | 3 |
| GENERAL INFORMATION | 5 |
| STANDARD TORQUE DATA FOR CAP SCREWS AND NUTS | 6 |

SAFETY

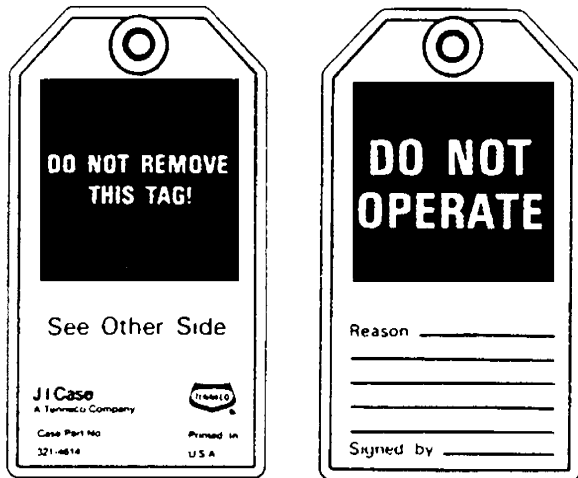


This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

SB001

To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.

Put the warning tag shown below on the key for the keyswitch when servicing or repairing the machine. One warning tag is supplied with each machine. Additional tags Part Number 331-4614 are available from your service parts supplier.



1001-01



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

46-27



WARNING: Operate the machine 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 manufacturers instructions on machine operation, service and to observe pertinent laws and regulations. Operator's and Service Manuals may be obtained from your Case dealer.

SA055



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.

45-3A



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: 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. 40-6A



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



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: 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. Open the doors and get outside air into the area. 48-56



WARNING: When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured. SA033

GENERAL INFORMATION

CLEANING

Clean all metal parts except bearings, in a suitable cleaning solvent or by steam cleaning. Do not use caustic soda for steam cleaning. After cleaning, dry and put oil on all parts. Clean oil passages with compressed air. Clean bearings in a suitable cleaning solvent, dry the bearings completely and put oil on the bearings.

INSPECTION

Check all parts when the parts are disassembled. Replace all parts that have wear or damage. Small scoring or grooves can be removed with a hone or crocus cloth. Complete a visual inspection for indications of wear, pitting and the replacement of parts necessary to prevent early failures.

BEARINGS

Check bearings for easy action. If bearings have a loose fit or rough action replace the bearing. Wash bearings with a suitable cleaning solvent and permit to air dry. **DO NOT DRY BEARINGS WITH COMPRESSED AIR.**

NEEDLE BEARINGS

Before you press needle bearings in a bore always remove any metal protrusions in the bore or edge of the bore. Before you press bearings into position put petroleum jelly on the inside and outside diameter of the bearings.

GEARS

Check all gears for wear and damage. Replace gears that have wear or damage.

OIL SEALS, O-RINGS AND GASKETS

Always install new oil seals, O-rings and gaskets. Put petroleum jelly on seals and O-rings.

SHAFTS

Check all shafts that have wear or damage. Check the bearing and oil seal surfaces of the shafts for damage.

SERVICE PARTS

Always install genuine Case service parts. When ordering refer to the Parts Catalog for the correct part number of the genuine Case replacement items. Failures due to the use of other than genuine Case replacement parts are not covered by warranty.

LUBRICATION

Only use the oils and lubricants specified in the Operator's or Service Manuals. Failures due to the use of non-specified oils and lubricants are not covered by warranty.

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