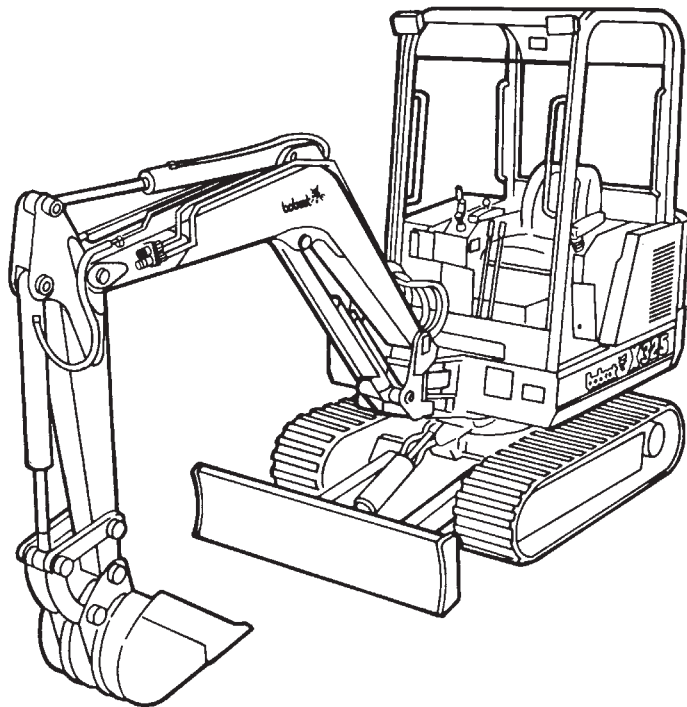


# X 325 X 328

## Excavator

### Service Manual

325 (S/N 514013001 & Above)  
328 (S/N 516611001 & Above)



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**INGERSOLL-RAND**

6900462 (6-12)



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# MAINTENANCE SAFETY



## WARNING

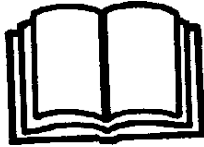
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

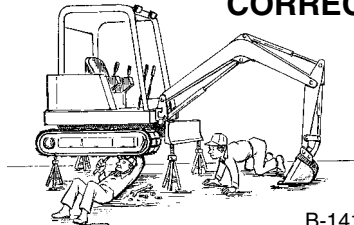
### CORRECT



B-10731a

- ⚠ Never service the Bobcat Hydraulic Excavator without instructions.

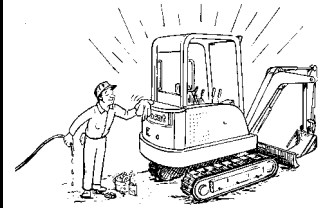
### CORRECT



B-14148

- ⚠ Use the correct procedure to lift and support the excavator.
- ⚠ Always lift the blade fully before installing jackstands.

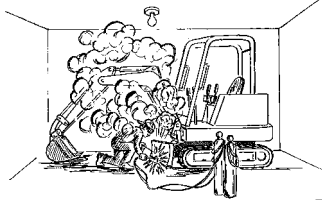
### CORRECT



B-14142

- ⚠ Cleaning and maintenance are required daily.

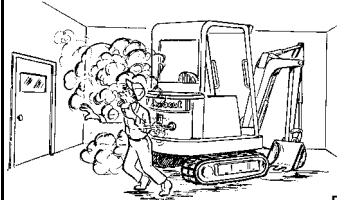
### WRONG



B-14147

- ⚠ Have good ventilation when welding or grinding painted parts.
- ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.

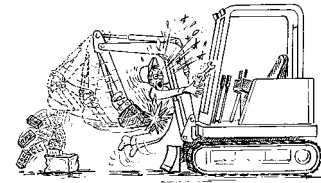
### WRONG



B-14141

- ⚠ Vent exhaust to outside when engine must be run for service.
- ⚠ Exhaust system must be tightly sealed. Exhaust Fumes can kill without warning.

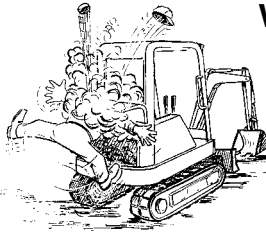
### WRONG



B-14145

- ⚠ Always lower the bucket and blade to the ground before doing any maintenance.
- ⚠ Never modify equipment or add attachments not approved by Bobcat Company.

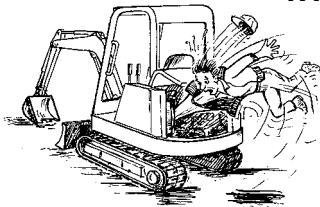
### WRONG



B-14146

- ⚠ Stop, cool and clean engine of flammable materials before checking fluids.
- ⚠ Never service or adjust machine with the engine running unless instructed to do so in the manual.
- ⚠ Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin or eyes.
- ⚠ Never fill fuel tank with engine running, while smoking or when near open flame.

### WRONG



B-14143

- ⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.
- ⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.
- ⚠ Keep rear door closed except for service. Close and latch door before operating the excavator.

### WRONG



B-6589

- ⚠ Lead-acid batteries produce flammable and explosive gases.
- ⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
- ⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL**. Always use genuine Bobcat replacement parts. The Service Safety Training Course is available from your Bobcat dealer.



**Bobcat®**

## ALPHABETICAL INDEX

|                                                                           |          |                                                                                                          |     |
|---------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------|-----|
| ACCUMULATOR .....                                                         | 2-1      | HYDRAULIC CONTROL VALVE (5-Spool) Boost,<br>Arm, Boom Swing, Blade and Swing Section .....               | 2-1 |
| AIR CLEANER .....                                                         | 7-1      | HYDRAULIC CONTROL VALVE (5-Spool) Left Travel,<br>Right Travel, Boom, Bucket and Auxiliary .....         | 2-1 |
| AIR CLEANER SERVICE .....                                                 | 1-1      | HYDRAULIC CYLINDERS .....                                                                                | 2-1 |
| ALTERNATOR .....                                                          | 6-1      | HYDRAULIC EXCAVATOR SPECIFICATIONS<br>(325 S/N 514013001-514014899) .....                                | 8-1 |
| ALTERNATOR BELT .....                                                     | 1-1      | HYDRAULIC EXCAVATOR SPECIFICATIONS<br>(325 S/N 514014900 & Above) &<br>(328 S/N 516611001 & Above) ..... | 8-1 |
| ARM BUSHINGS .....                                                        | 4-1      | HYDRAULIC FILTER ASSEMBLY .....                                                                          | 2-1 |
| ARM CYLINDER .....                                                        | 2-1      | HYDRAULIC PUMP .....                                                                                     | 2-1 |
| AUXILIARY SELECTOR VALVE .....                                            | 2-1      | HYDRAULIC RESERVOIR .....                                                                                | 2-1 |
| BATTERY .....                                                             | 6-1      | HYDRAULIC SERVICE INFORMATION .....                                                                      | 2-1 |
| BLADE CYLINDER .....                                                      | 2-1      | HYDRAULIC SYSTEM .....                                                                                   | 1-1 |
| BOOM .....                                                                | 4-1      | HYDRAULIC SYSTEM TROUBLESHOOTING .....                                                                   | 2-1 |
| BOOM BUSHING .....                                                        | 4-1      | IDLER GEAR AND CAMSHAFT .....                                                                            | 7-1 |
| BOOM CYLINDER .....                                                       | 2-1      | INSTRUMENT PANEL<br>(325 S/N 514013001-514014899) .....                                                  | 6-1 |
| BOOM CYLINDER SHIELD .....                                                | 2-1      | JOYSTICK .....                                                                                           | 3-1 |
| BOOM SWING BRACKET .....                                                  | 4-1      | JOYSTICK CONTROL CHANGE .....                                                                            | 2-1 |
| BOOM SWING CYLINDER .....                                                 | 2-1      | LEFT CONSOLE (325 S/N 514013001-514014899) .....                                                         | 3-1 |
| BUCKET .....                                                              | 4-1      | LEFT CONSOLE (325 S/N 514014900 & Above) &<br>(328 S/N 516611001 & Above) .....                          | 3-1 |
| BUCKET CYLINDER .....                                                     | 2-1      | LEFT CONSOLE COVER<br>(325 S/N 514014900 & Above) &<br>(328 S/N 516611001 & Above) .....                 | 3-1 |
| BUCKET SPECIFICATIONS .....                                               | 8-1      | LEFT SIDE COVER .....                                                                                    | 4-1 |
| BUILD UP VALVE .....                                                      | 2-1      | LIFTING AND BLOCKING THE EXCAVATOR .....                                                                 | 1-1 |
| BUZZER .....                                                              | 6-1      | LUBRICATION OF THE EXCAVATOR .....                                                                       | 1-1 |
| CAB .....                                                                 | 4-1      | MAIN RELIEF VALVES (Adjustable) .....                                                                    | 2-1 |
| CAB/CANOPY REAR COVER .....                                               | 4-1      | MUFFLER .....                                                                                            | 7-1 |
| CAB ELECTRICAL .....                                                      | 6-1      | OIL COOLER .....                                                                                         | 2-1 |
| CASE DRAIN FILTER .....                                                   | 2-1      | OIL PUMP .....                                                                                           | 7-1 |
| CENTER SWIVEL JOINT .....                                                 | 4-1      | PISTON AND CONNECTING ROD .....                                                                          | 7-1 |
| COOLING SYSTEM .....                                                      | 1-1      | PORT BLOCK .....                                                                                         | 2-1 |
| CORNER POST .....                                                         | 4-1      | PORT RELIEF VALVES AND MID INLET<br>MAIN RELIEF VALVES .....                                             | 2-1 |
| COUNTERWEIGHTS .....                                                      | 4-1      | RADIATOR .....                                                                                           | 7-1 |
| CRANKSHAFT AND BEARINGS .....                                             | 7-1      | REAR ENGINE COVER .....                                                                                  | 4-1 |
| CRANKSHAFT GEAR .....                                                     | 7-1      | REAR FLOOR PLATE .....                                                                                   | 4-1 |
| CROSS PORT RELIEF VALVE .....                                             | 2-1, 4-1 | RIGHT CONSOLE (325 S/N 514013001-514014899) .....                                                        | 3-1 |
| CYLINDER BORE .....                                                       | 7-1      | RIGHT CONSOLE (325 S/N 514014900 & Above) &<br>(328 S/N 516611001 & Above) .....                         | 3-1 |
| CYLINDER HEAD .....                                                       | 7-1      | RIGHT CONSOLE COVER<br>(325 S/N 514013001-514014899) .....                                               | 3-1 |
| DECIMAL AND MILLIMETER EQUIVALENTS .....                                  | 8-1      | RIGHT CONSOLE COVER<br>(325 S/N 514014900 & Above) &<br>(328 S/N 516611001 & Above) .....                | 3-1 |
| DIODES (325 S/N 514014900 & Above) &<br>(328 S/N 516611001 & Above) ..... | 6-1      | RIGHT SIDE COVER .....                                                                                   | 4-1 |
| ELECTRICAL SYSTEM .....                                                   | 1-1, 6-1 | ROCKER ARM AND SHAFT .....                                                                               | 7-1 |
| ENGINE .....                                                              | 7-1      | ROPS CANOPY .....                                                                                        | 4-1 |
| ENGINE COMPRESSION .....                                                  | 7-1      | SEAT AND SEAT MOUNT .....                                                                                | 4-1 |
| ENGINE COVER .....                                                        | 1-1      | SERVICE SCHEDULE .....                                                                                   | 1-1 |
| ENGINE FLYWHEEL .....                                                     | 7-1      | SPARK ARRESTOR MUFFLER .....                                                                             | 1-1 |
| ENGINE LUBRICATION SYSTEM .....                                           | 1-1      | STEERING LEVER AND PEDALS .....                                                                          | 4-1 |
| ENGINE OIL AND COOLING SPECIFICATIONS .....                               | 8-1      | SWING BRACKET BUSHING .....                                                                              | 4-1 |
| ENGINE SPECIFICATIONS .....                                               | 8-1      | SWING MOTOR .....                                                                                        | 4-1 |
| FAN GUARD .....                                                           | 7-1      | SWING MOTOR COVER .....                                                                                  | 4-1 |
| FLOOR MAT AND FLOOR PLATE .....                                           | 4-1      | SWING MOTOR DRIVE CARRIER .....                                                                          | 4-1 |
| FLYWHEEL RING GEAR .....                                                  | 7-1      |                                                                                                          |     |
| FRONT ENGINE COVER .....                                                  | 4-1      |                                                                                                          |     |
| FUEL CAMSHAFT .....                                                       | 7-1      |                                                                                                          |     |
| FUEL, COOLANT AND LUBRICANTS .....                                        | 8-1      |                                                                                                          |     |
| FUEL INJECTOR NOZZLES .....                                               | 7-1      |                                                                                                          |     |
| FUEL INJECTION PUMP .....                                                 | 7-1      |                                                                                                          |     |
| FUEL LEVEL SENDER .....                                                   | 6-1      |                                                                                                          |     |
| FUEL SHUT-OFF SOLENOID .....                                              | 7-1      |                                                                                                          |     |
| FUEL SYSTEM .....                                                         | 1-1      |                                                                                                          |     |
| FUEL TANK .....                                                           | 4-1      |                                                                                                          |     |
| GAUGES .....                                                              | 6-1      |                                                                                                          |     |
| GLOW PLUGS .....                                                          | 7-1      |                                                                                                          |     |
| HEATER AIR FILTER SERVICE .....                                           | 1-1      |                                                                                                          |     |
| HORN .....                                                                | 6-1      |                                                                                                          |     |

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