

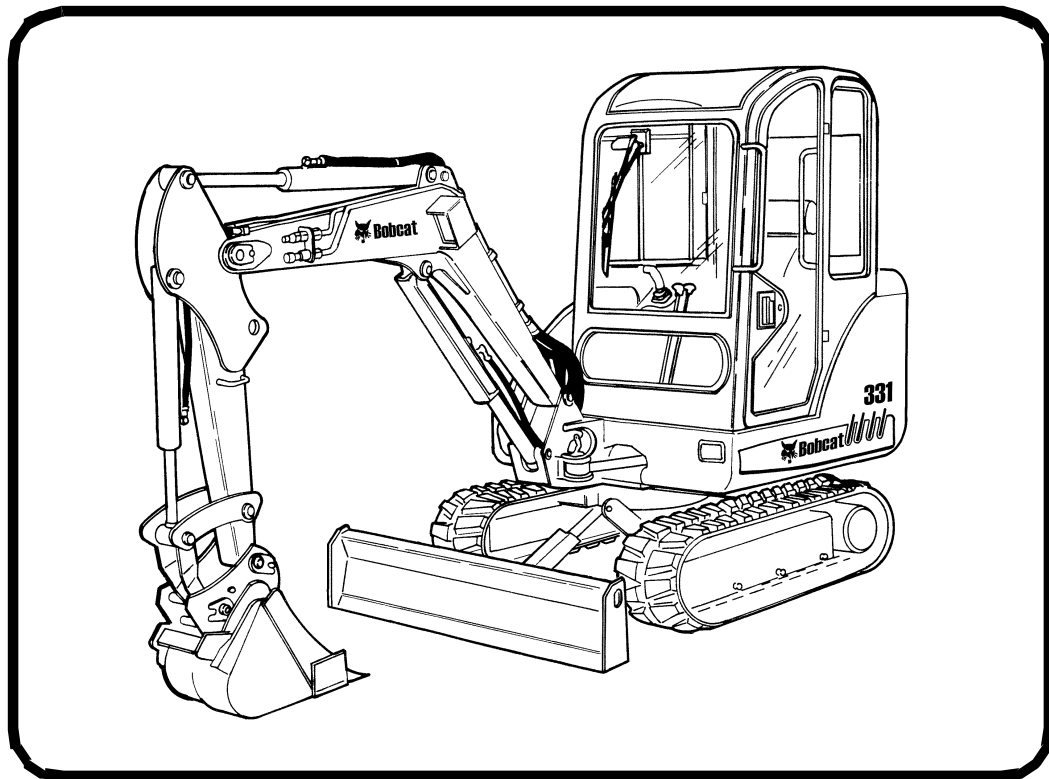


Bobcat®

Service Manual

331, 331E Compact Excavator

331 S/N AACS11001 & Above



Dealer Copy -- Not for Resale

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-2003-0807



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

CORRECT



P-90216

- Never service the Bobcat Excavator without instructions.

CORRECT



B-19964

- Use the correct procedure to lift and support the excavator.

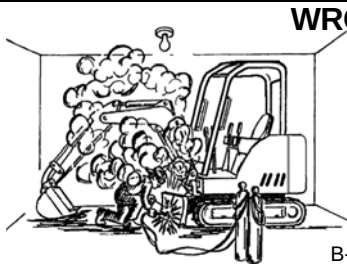
CORRECT



B-19959

- Cleaning and maintenance are required daily.

WRONG



B-19965

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

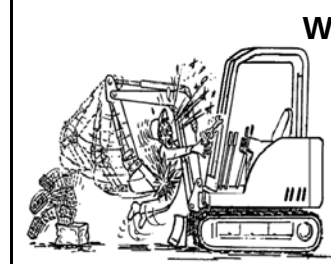
WRONG



B-19960

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

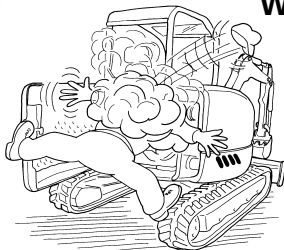
WRONG



B-19966

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

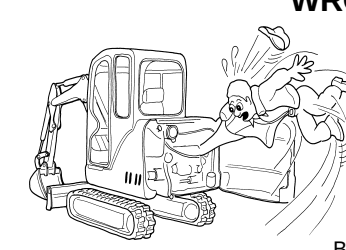
WRONG



B-19962

- 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-19958

- 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 protections approved for type of welding.
- Keep tailgate closed except for service. Close and latch tailgate before operating the excavator.

WRONG



B-19798

- 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.

MSW28-0409

Dealer Copy -- Not for Resale



Bobcat®

ALPHABETICAL INDEX

AIR CLEANER	60-01	FUEL LEVEL SENDER	50-01
AIR CLEANER SERVICE	10-01	FUEL SYSTEM.....	10-01
AIR CONDITIONING SERVICE.....	70-01	FUEL TANK	40-01
AIR CONDITIONING SYSTEM FLOW	70-01	GENERAL AIR CONDITIONING SERVICE	
ALTERNATOR	50-01	GUIDELINES	70-01
ARM CYLINDER	20-01		
		HEATER COIL	70-01
BASIC TROUBLESHOOTING	70-01	HEATER A/C FAN	70-01
BATTERY.....	50-01	HEATER AIR FILTER	
BLADE	30-01	(WITH CAB OPTION ONLY)	10-01
BLADE CONTROL.....	40-01	HEATER VALVE	70-01
BLADE CYLINDER	20-01	HORN	40-01
BOOM	40-01	HYDRAULIC CONTROL VALVE	20-01
BOOM CYLINDER.....	20-01	HYDRAULIC CONNECTION SPECS	SPEC-01
BOOM SWING CYLINDER.....	20-01	HYDRAULIC FLUID SPECIFICATIONS.....	SPEC-01
BOOM SWING LOCK VALVE	20-01	HYDRAULIC FILTER MOUNT.....	20-01
BUCKET	40-01	HYDRAULIC PUMP	20-01
BUCKET CYLINDER	20-01	HYDRAULIC PUMP START UP	20-01
		HYDRAULIC RESERVOIR.....	20-01
CAB.....	40-01	HYDRAULIC SYSTEM	10-01
CASE DRAIN FILTER	20-01	HYDRAULIC SYSTEM INFORMATION	20-01
CLAMP.....	40-01	HYDRAULIC X-CHANGE VALVE	20-01
CLAMP CYLINDER	20-01	LEFT CONTROL LEVER (JOYSTICK)	20-01
COMPONENTS	70-01	LEFT CONSOLE	40-01
COMPRESSOR	70-01	LIFTING AND BLOCKING THE EXCAVATOR	10-01
CONDENSOR	70-01	LIFTING THE EXCAVATOR	10-01
CONVERSIONS	SPEC-01	LIGHTS.....	50-01
CONTROL PATTERN SELECTOR VALVE	20-01	LUBRICATION OF THE HYDRAULIC	
CROSS PORT RELIEF VALVES	20-01	EXCAVATOR	10-01
DIAGNOSTICS SERVICE CODES.....	50-01	MAGNETIC LOCKOUT SENSOR	50-01
DIRECT TO TANK VALVE	20-01	MAIN RELIEF VALVE	20-01
DELUXE INSTRUMENT PANEL SETUP	50-01	MANIFOLD ASSEMBLY/ACCUMULATOR	20-01
ELECTRICAL SYSTEM INFORMATION	50-01	OIL COOLER.....	20-01
ENGINE	60-01	OPERATOR CAB (ROPS/TOPS)	10-01
ENGINE ACCESSORY DRIVE BELT	10-01		
ENGINE COMPONENTS AND TESTING	60-01	PORT RELIEF VALVES.....	20-01
ENGINE COOLING SYSTEM.....	10-01	PRESSURE REDUCING VALVE.....	20-01
ENGINE FLYWHEEL	60-01	PRESSURE RELIEF VALVE	70-01
ENGINE LUBRICATION SYSTEM.....	10-01	PRESSURE SWITCH	70-01
ENGINE SPECIFICATIONS.....	SPEC-01		
ENGINE SPEED CONTROL	40-01	RADIATOR	60-01
EXTENDIBLE ARM	40-01	RECEIVER/DRIER	70-01
EXTENDIBLE ARM CYLINDER	20-01	RECONDITIONING THE ENGINE	60-01
EVAPORATOR.....	70-01	REGULAR MAINTENANCE	70-01
EVAPORATOR/HEATER UNIT	70-01	RIGHT CONTROL LEVER (JOYSTICK)	20-01
EXPANSION VALVE	70-01	RIGHT CONSOLE.....	40-01
EXTENDIBLE ARM CYLINDER	20-01	RIGHT PEDAL AND LINKAGE	40-01
		RIGHT SIDE COVER	10-01, 40-01
FLOORMAT AND FLOOR PANELS	40-01	ROPS CANOPY.....	40-01
FUEL, COOLANT AND LUBRICANTS	SPEC-01		

Dealer Copy -- Not for Resale

Continued On Next Page

It's a preview. You can download the full file by clicking the link below.

<https://shop servicemanual.com/>

Service Manuals from 2\$