

# WARNING

## AVOID INJURY OR DEATH

- Keep door closed except for service.
- Keep engine clean of flammable material.
- Keep body, loose objects and clothing away from electrical contacts, moving parts, hot parts and exhaust.
- Do not use loader in space with explosive dusts or gases or with flammable material near exhaust.
- Never use ether or starting fluid on diesel engine with glow plugs or air intake heater. Use only starting aids as approved by engine manufacturer.
- Leaking fluids under pressure can enter skin and cause serious injury.
- Battery acid causes severe burns; wear goggles. If acid contacts eyes, skin, or clothing, flush with water. For contact with eyes, flush and get medical attention.
- Battery makes flammable and explosive gas. Keep arcs, sparks, flames and lighted tobacco away.
- For jump start, connect negative cable to loader engine last (never at the battery). After jump start, remove negative connection at the engine first.
- Exhaust gases can kill. Always ventilate.

## SERVICE CHECKLIST AND SCHEDULE

### EVERY 10 HRS (BEFORE STARTING THE LOADER)

- ▲ ■ **ENGINE OIL & FILTER** - Check level and add as needed. Do not overfill. Change oil and filter after first 50 Hrs, then refer to Operation & Maintenance Manual for proper change interval for your Model.
- **ENGINE AIR FILTERS** - Check condition indicator and/or display. Service only when required. Do not use compressed air to clean elements.
- **ENGINE AIR SYSTEM** - Check for leaks and damaged components.
- **ENGINE COOLING SYSTEM** - Clean debris from grill, oil cooler, air conditioner (if equipped), and radiator. Check coolant level cold; add coolant mixture if required. Replace engine coolant every 2 years.
- **FUEL FILTER** - Remove trapped water.
- **LOADER LIFT ARMS, LIFT LINKS, CYLINDERS, BOB-TACH PIVOT & WEDGES, STEERING CYLINDERS (AWS Machines Only)** - Lubricate with multipurpose lithium based grease.
- **SEAT BELT, SEAT BAR AND CONTROL INTERLOCKS** - Check function. Repair or replace as needed. Clean dirt and debris from moving parts.
- **BIGS** - Check for correct function. Clean dirt and debris from moving parts. Lift and Tilt functions MUST NOT operate with seat bar raised.
- **FRONT HORN / BACK-UP ALARM** - Check for proper function.
- **TIRES** - Check air pressure. Inflate to MAXIMUM pressure shown on sidewall of tire.
- **GENERAL** - Check for loose or broken parts, damaged operator cab, instrument operation, loose wheel nuts or track sprocket nuts, oil leaks, damaged or missing safety signs (decals).
- **HYDRAULIC FLUID** - Check fluid level and add if required.
- **HEATER AND AIR CONDITIONING FILTERS (If Equipped)** - Clean or replace filters as needed.

### EVERY 50 HRS

- **HYDRAULIC HOSES AND TUBELINES** - Check for damage and for leaks. Repair or replace as needed.
- **FINAL DRIVE TRANSMISSION (CHAINCASE on Wheel Machines Only)** - Check fluid level and add if required.
- **PARKING BRAKE, HYDRAULIC & STEERING CONTROLS (Pedal, Hand and/or Joystick)** - Check for correct operation. Adjust as needed.
- **WHEEL NUTS / TRACK DRIVE SPROCKETS** - Check for loose nuts and tighten as needed.
- **TRACK TENSION (Track Machines Only)** - Check tension and adjust as needed.

### EVERY 100 HRS

- **SPARK ARRESTOR MUFFLER** - Empty spark chamber. (If equipped) See IMPORTANT message on this decal.
- **BATTERY** - Check battery for damage, hold down clamps, cables, connections and electrolyte level. Add distilled water as needed.

### EVERY 250 HRS

- **FUEL FILTER** - Replace filter.
- ▲ ■ **ENGINE / HYDROSTATIC DRIVE BELT** - Check for wear or damage. Adjust stop or replace belt as needed.
- **OTHER DRIVE BELTS (water pump/alternator and air conditioner - if equipped)** - Check condition. Replace as needed.
- **BIGS** - Check function of Lift Arm By-Pass control.
- **STEERING KING PINS (AWS Machines Only)** - Lubricate with multipurpose lithium based grease.

### EVERY 500 HRS

- ▲ ■ **HYDRAULIC / HYDROSTATIC SYSTEM** - Replace charge (fan) filter. Replace reservoir breather cap.
- **HYDROSTATIC MOTOR CARRIER (Track Machines Only)** - Replace oil with high performance synthetic oil. See Owner's Manual for oil specifications.
- **ENGINE VALVES** - Adjust the engine valves after the first 500 hours then refer to Operation & Maintenance Manual for proper adjustment intervals for your Model.
- **STEERING FILTER (AWS Machines Only)** - Replace filter.

### EVERY 1000 HRS

- ▲ ■ **HYDRAULIC / HYDROSTATIC SYSTEM** - Replace hydraulic filter.
- **HYDRAULIC RESERVOIR** - Replace fluid.
- **FINAL DRIVE TRANSMISSION (Chaincase on Wheel Machines Only)** - Replace fluid.
- **WHEEL BEARING / OUTER SPLINES (AWS Machines Only)** - Repack wheel bearings, grease internal splines in hub yoke. (Dealer Service Only)

### NOTES:

- ★ Replace element sooner if hydraulic filter warning indicator remains on for more than 5 minutes after hydraulic fluid is at operating temperature.
- ▲ Service at first 50 Hours, then as scheduled.
- See Operation & Maintenance Manual for correct fluid specifications, filter part number and location, and appropriate service interval for your Model.

SEE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION AND INSTRUCTIONS.



Use Genuine Bobcat Replacement Parts

## IMPORTANT

THIS MACHINE IS FACTORY EQUIPPED WITH A U.S.D.A. FORESTRY SERVICE APPROVED SPARK ARRESTOR EXHAUST SYSTEM.

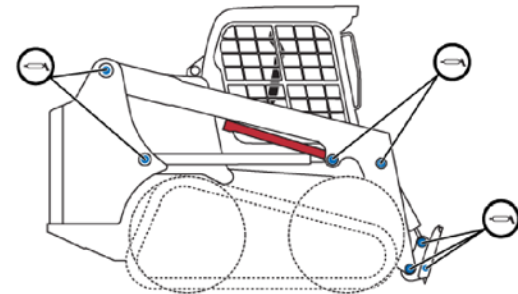
THE SPARK ARRESTOR MUFFLER, IF EQUIPPED, MUST BE CLEANED TO KEEP IT IN WORKING CONDITION. THE SPARK ARRESTOR MUFFLER MUST BE SERVICED BY DUMPING THE SPARK CHAMBER EVERY 100 HRS OF OPERATION.

ON SOME MODELS, THE TURBOCHARGER FUNCTIONS AS THE SPARK ARRESTOR AND MUST OPERATE CORRECTLY FOR PROPER SPARK ARRESTOR FUNCTION.

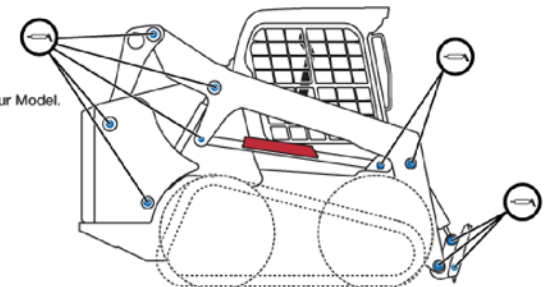
IF THIS MACHINE IS OPERATED ON FLAMMABLE FOREST, BRUSH, OR GRASS COVERED LAND, IT MUST BE EQUIPPED WITH A SPARK ARRESTOR ATTACHED TO THE EXHAUST SYSTEM AND MAINTAINED IN WORKING ORDER. FAILURE TO DO SO WILL BE IN VIOLATION OF CALIFORNIA STATE LAW, SECTION 4442, PRC. REFER TO LOCAL LAWS AND REGULATIONS FOR SPARK ARRESTOR REQUIREMENTS.

## GENERAL LUBRICATION DIAGRAMS

### TYPICAL GREASE POINTS



RADIUS PATH MACHINE



VERTICAL PATH MACHINE