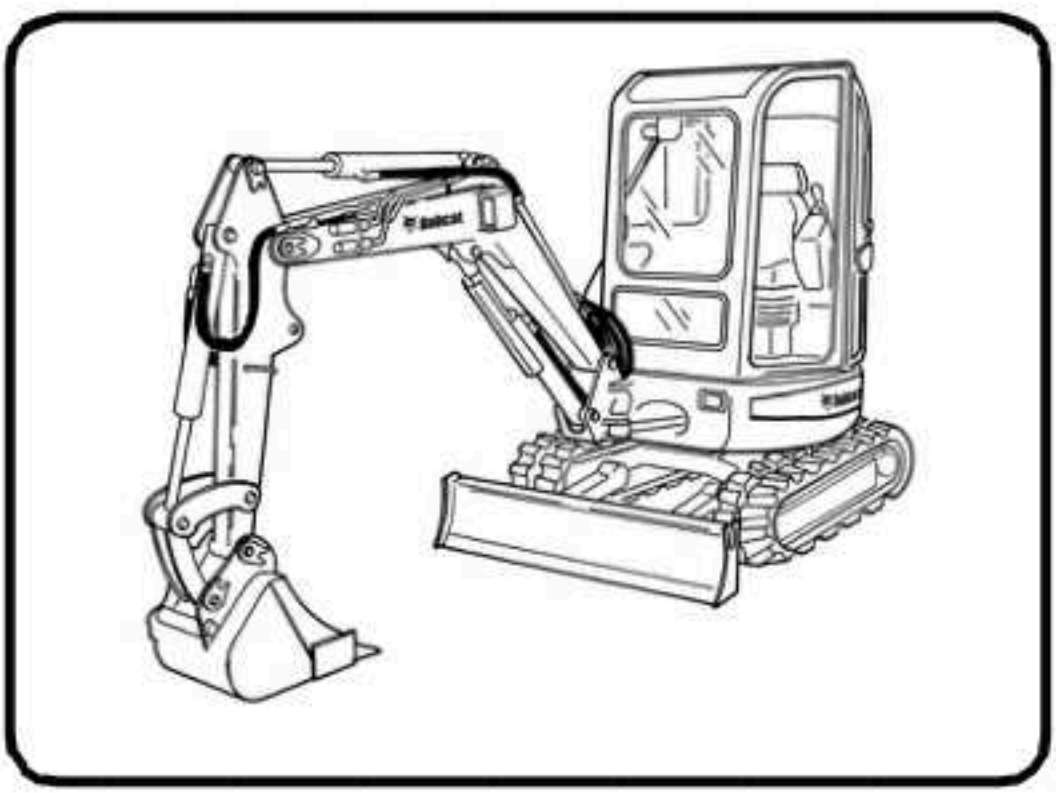
Bobcat®

Service Manual

425, 428 Compact Excavator

425 S/N AACJ11001 & Above
425 S/N A9K311001 & Above
428 S/N A9K411001 & Above



6986952 (5-09)

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FUEL TANK

Removal And Installation

Remove the floor mat and floor panel. (See Removal And Installation on Page 40-90-1.)

Remove the travel controls. (See Removal And Installation on Page 40-110-1.)

Remove the seat and seat mount. (See SEAT AND SEAT MOUNT on Page 40-40-1.)

Remove the heater unit (If equipped) (See Removal And Installation on Page 70-40-1.)

Remove the joystick console cover. (See Joystick Console Cover (Bottom) Removal And Installation on Page 40-60-1.)

Remove the joystick console cover. (See Joystick Console Cover (Top) Removal And Installation on Page 40-60-1.)

Remove the left rear console cover. (See Left Rear Console Cover Removal And Installation on Page 40-60-8.)

Remove the boom swing cylinder. (See Removal And Installation on Page 40-120-1.)

Drain the fuel tank. (See Removal And Installation on Page 40-120-1.)

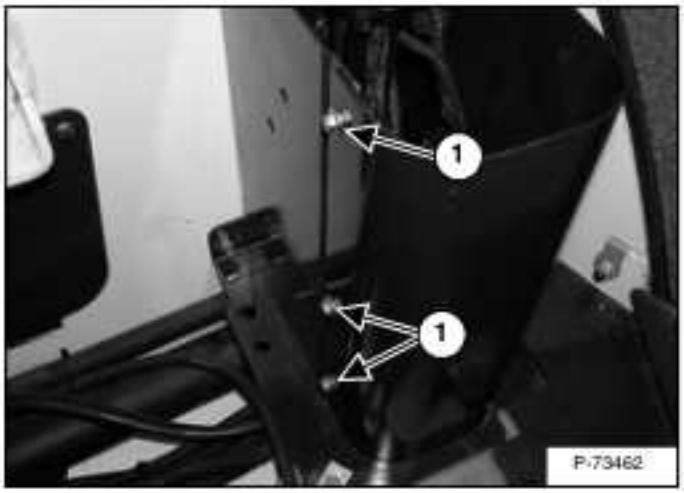
⚠ WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

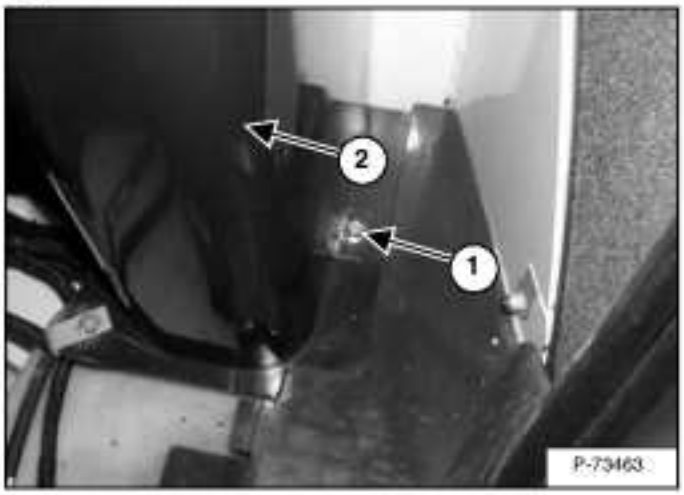
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Figure 40-120-1



Remove the bolts (Item 1) **[Figure 40-120-1]**.

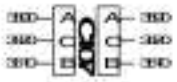
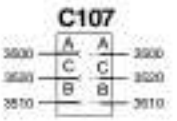
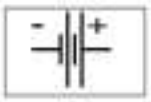
Figure 40-120-2

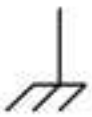
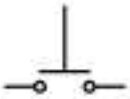
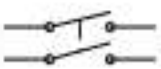
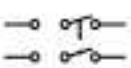


Remove the bolt (Item 1) and cover (Item 2) **[Figure 40-120-2]**.

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Glossary Of Electrical Symbols

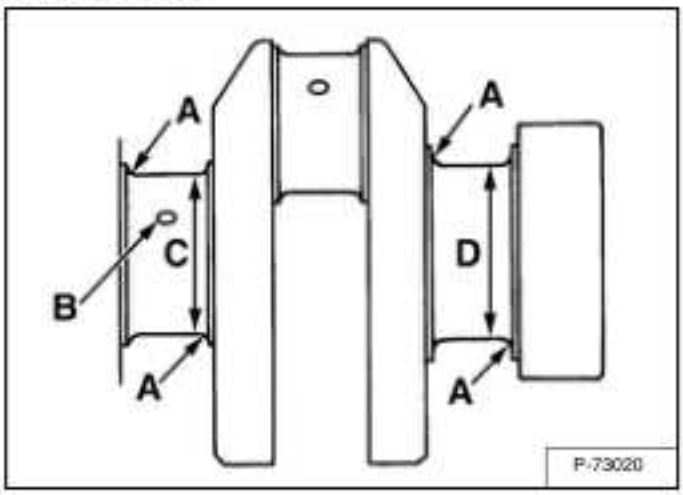
SYMBOL	DESCRIPTION
	CONNECTIONS
	CONNECTOR - Harness - Used for connecting 2 harnesses together or a harness to a component. The connector can vary from a single pin to any number of pins (Example: 3 pin connectors shown). The connector pins can be numbered alphabetical (shown) or numerical (1, 2, 3 etc.). The harness wires numbers are called out next to the connector (Example: 3500).
	The connector number is called out next to the connector (Example: C107). These connector numbers are used for schematic identification only and do not appear on the harness or connector.
	COMPONENTS
	BATTERY - Used for supplying and storing electrical power for the machine.
+	POSITIVE ELECTRICAL CIRCUIT - Indicates positive battery circuit.
-	NEGATIVE ELECTRICAL CIRCUIT - Indicates battery ground circuit.
G	ALTERNATOR - Used to create the electrical current to supply voltage to the battery and components.
	STARTER - Uses battery current to start the machine engine.
	GROUND - Used to represent an external ground connection.

SYMBOL	DESCRIPTION
	COMPONENTS
	GROUND - Frame - Used to represent an component that is internally grounded.
	LIGHT -
 	SWITCH - Single Pole - Single Throw (ON-OFF) Normally Open
	SWITCH - Single Pole - Single Throw (ON-OFF) Normally Closed.
	SWITCH - Single Pole - Double Throw (ON-OFF-ON) - This switch can be in any of three positions. (Some switches are spring activated to return them to a certain position when released.)
	SWITCH - Double Pole - Single Throw (ON-OFF) Open and Closed positions will be specified depending on switch application.)
	SWITCH - Double Pole - Double Throw (ON-OFF) Open and Closed positions will be specified depending on switch application.
	POTENTIOMETER - Variable resistance - Provides variable resistance.

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Crankshaft And Bearings - Servicing (Cont'd)

Figure 60-90-35



NOTE: Undersize dimensions of crankshaft journal [Figure 60-90-35].

Undersize	0.0079 in. (0,2 mm)	0.016 in. I (0,4 mm)
Dim. A	0.091-0.103 in. radius (2,3-2,7 mm) radius	0.091-0.10 in. radius (2,3-2,7 mm) radius
Dim. B	0.040-0.0591 in. dia. (1,0-1,5 mm) dia.	0.040-0.0591 in. dia. (1,0-1,5 mm) dia.
Dim. C	1.8793-1.8799 in. dia. (47,734-47,750 mm) dia.	1.8714-1.8720 in. dia. (47,534-47,550 mm) dia.
Dim. D	2.0362-2.0370 in. dia. (51,721-51,740 mm) dia.	2.0284-2.291 in. dia. (51,521- 51,540 mm) dia.

The crank pin must be fine-finished to higher than (0.8-S)

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WIRING SCHEMATIC
425 (S/N AACJ11001 AND ABOVE)
(S/N A9K311001 AND ABOVE)
428 (S/N A9K411001 AND ABOVE)

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V-0991

CONTROL MODULE CONNECTORS J1-J5

RIGHT HAND CONSOLE HARNESS 7130798

LH CONSOLE HARNESS 7130797

CAB HARNESS 7102833 (IF EQUIPPED)

ENGINE HARNESS 7130796

V-0991 (1-17-08)

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