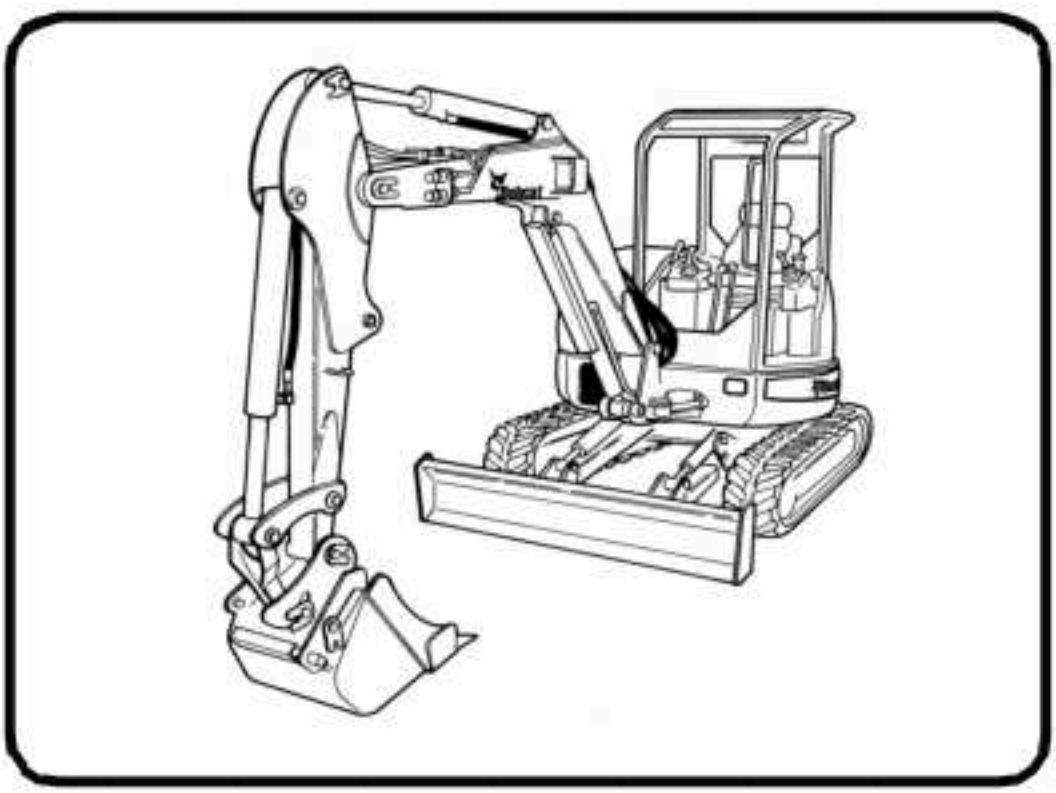
Bobcat®

Service Manual
435 Compact Excavator

S/N AACB11001 & Above
S/N AACD11001 & Above
S/N AA8911001 & Above
S/N AA8A11001 & Above



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Troubleshooting The Hydraulic Circuit

TROUBLESHOOTING THE HYDRAULIC CIRCUIT		
PROBLEM	**CAUSE**	**CORRECTION**
No hydraulic operation at one or more circuits.	Hydraulic oil level low.	Refill with correct oil.
	Hydraulic pump drive coupling damaged.	Replace
	Hydraulic pump defective.	Repair or replace.
	Main relief valve defective.	Readjust or replace.
Hydraulic power insufficient to one or more circuits.	Main relief valve pressure setting incorrect.	Readjust or replace.
All hydraulic speed too slow.	Hydraulic oil level or viscosity incorrect.	Fill to correct level. Use correct viscosity oil.
	Engine RPM reduced.	Readjust or replace.
	Control valve linkage defective.	Check, repair or replace.
	Hydraulic pump volume low.	Check, repair or replace.
Oil temperature too high.	Oil cooler or radiator fins plugged.	Clean oil cooler external surface.
	Hydraulic oil level low.	Fill to correct level.
	Non recommended hydraulic oil.	Replace.
	Relief valve excessively activated.	Use proper operating procedures.
	One or more relief valves not set correctly.	Readjust or replace.
	Extreme operating conditions. High ambient temperature (i.e.: enclosed structure).	
	Fan belt loose.	Tighten fan belt.

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Bushing Removal

IMPORTANT

Do Not point (hammer) on the boom swing bracket. Excess pressure can cause the casting to crack.

I-2095-1195

The following parts will be needed for removal and installation of the boom swing bracket bushings:

Bolt - 3/4 x 6 in. or (19 x 153 mm) long.

Nut - 3/4 in. or (19 mm)

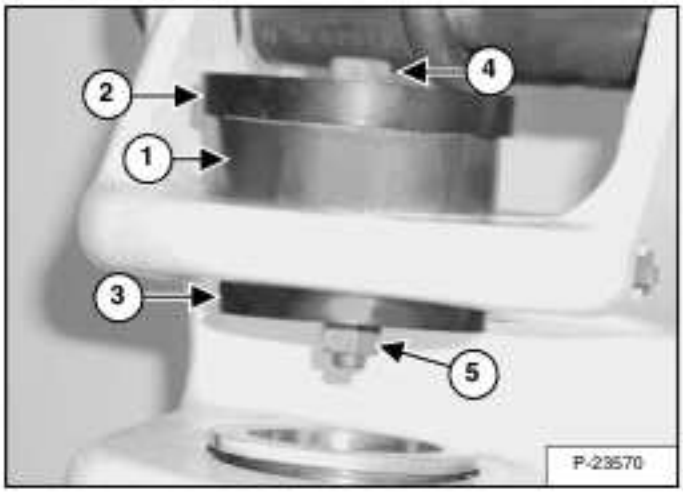
Washer -7/8 I.D. x 3-1/8 O.D. x 3/8 in. thick or (22 mm I.D. x 79 mm O.D. x 10 mm thick

Washer - 7/8 I.D. x 3-1/2 O.D. x 3/8 in. thick or (22 mm I.D. x 89 mm O.D. x 10 mm thick)

Washer - 7/8 I.D. x 4-1/2 O.D. x 1/2 in. thick or (22 mm I.D. 114 mm O.D. x 13 mm thick)

Spacer - 3-1/2 I.D. x 4-1/4 O.D. x 1-1/2 in. thick or (89 mm I.D. x 108 mm O.D. x 38 mm thick).

Figure 50-150-15



Install the spacer (Item 1) and washer (Item 2) **[Figure 50-150-15]** over the flanged end of the bushing.

The spacer (Item 1) **[Figure 50-150-15]** must be centered over the bushing to avoid contact between the bushing and the spacer during removal.

Install the washer (Item 3) **[Figure 50-150-15]** onto the opposite end of the bushing. This washer must be centered on the bushing and must not contact the casting.

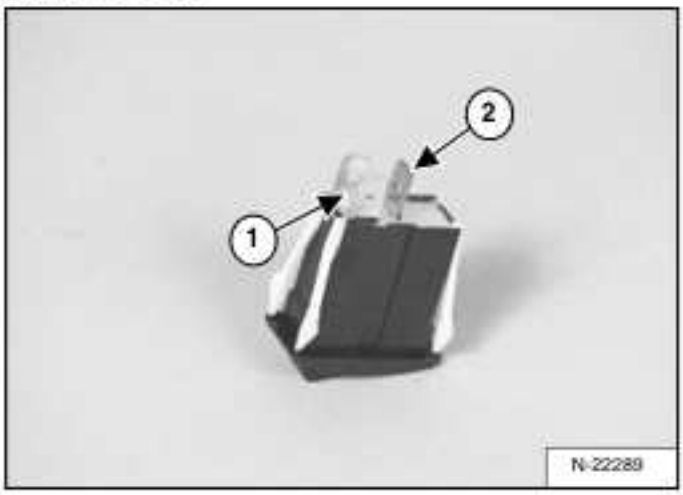
Install the bolt (Item 4) and the nut (Item 5) **[Figure 50-150-15]** through the washers and the spacer.

Tighten the bolt and nut to remove the bushing from the casting.

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Checking The Electrical System (Cont'd)

Figure 80-80-33



If there is voltage at the wiring harness, check the A/C switch **[Figure 80-80-33]** for resistance.

With the switch in the OFF position there should be no resistance between any of the three terminals on the A/C switch.

With the switch in the ON position there should be resistance between terminal (Item 1) and terminal (Item 2) **[Figure 80-80-33]**.

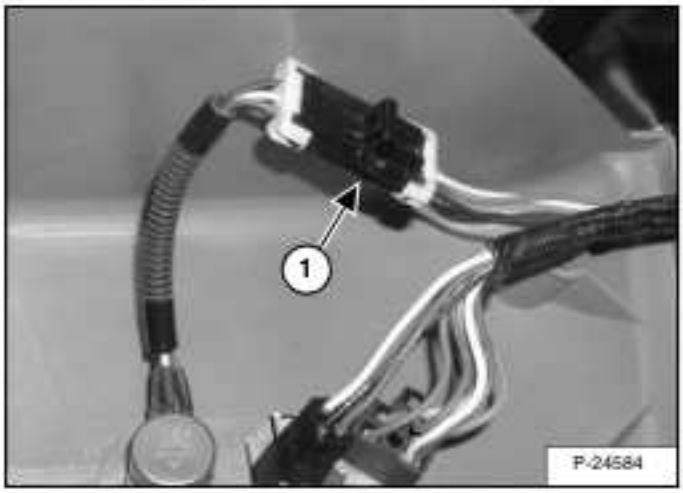
If no resistance value is found, replace the A/C switch.

If a resistance value is found, check the potentiometer.

The potentiometer will effect the A/C system and also effect the operation of the heater.

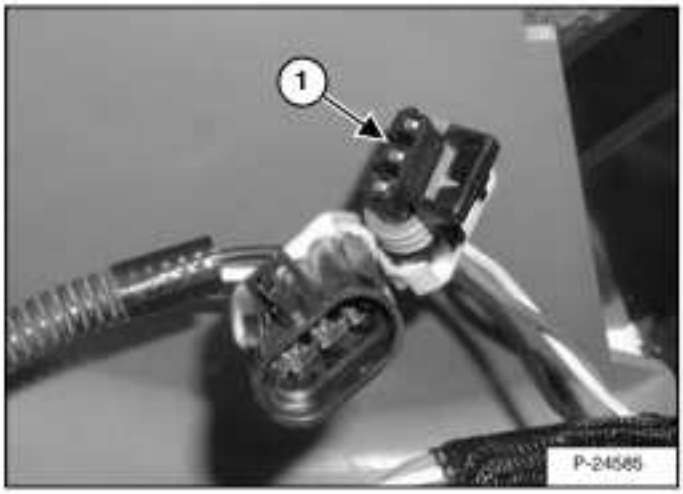
If heater valve does not open, or close, or the A/C does not work, check the potentiometer.

Figure 80-80-34



Disconnect the harness (Item 1) **[Figure 80-80-34]** from the potentiometer.

Figure 80-80-35



Check the harness (Item 1) **[Figure 80-80-35]** for voltage. Between pins **A** and **C** the voltage should be 12 volts.

If there is no voltage at the wiring harness, check the harness for broken wires.

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WIRING SCHEMATIC

435 (S/N AACB11001 AND ABOVE)
(S/N AA8911001 AND ABOVE)
(S/N AACD11001 AND ABOVE)
(S/N AA8A11001 AND ABOVE)
(PRINTED NDECEMBER 2007)

CONTROL MODULE
CONNECTORS J1-J6

LH CONSOLE
HARNESS 7135275

RIGHT HAND CONSOLE
HARNESS 7135276

ENGINE HARNESS
6814829

V-0972 (12-5-07)

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