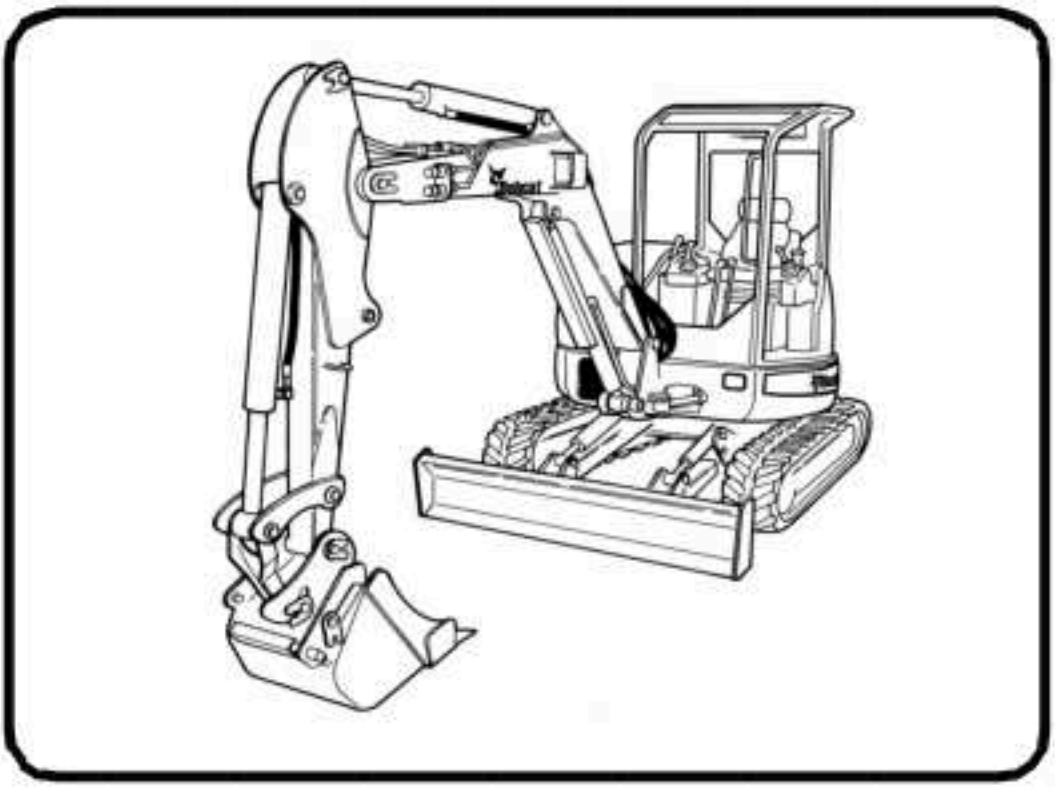
Bobcat

Service Manual
430 Compact Excavator

S/N AA8711001 & Above
S/N AA8811001 & Above
S/N AACF11001 & Above
S/N AACG11001 & Above



6986955 (9-09)

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Removal And Installation

IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

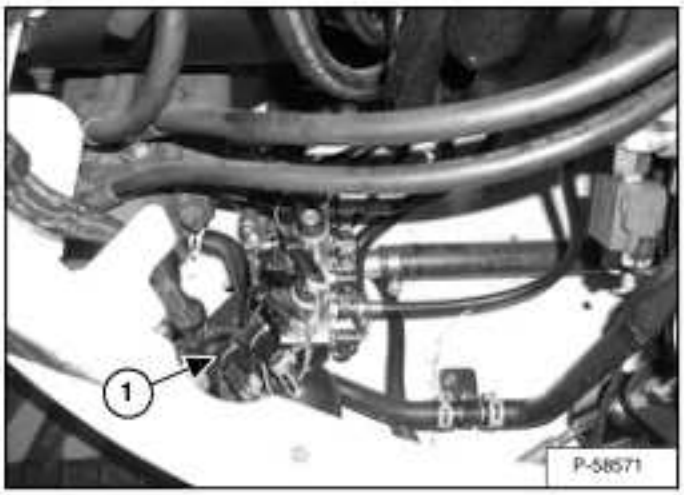
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Open the right side cover.

Open the tailgate.

Mark all tubelines and hoses for proper installation.

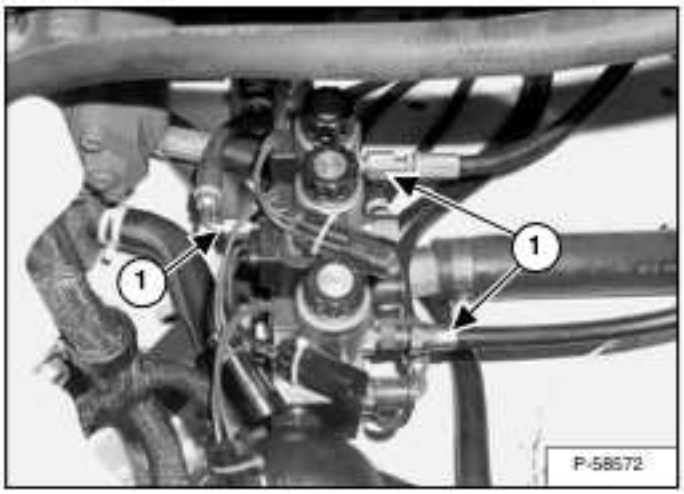
Figure 20-61-6



Disconnect the four wire harnesses (Item 1) **[Figure 20-61-6]** from the manifold assembly solenoids.

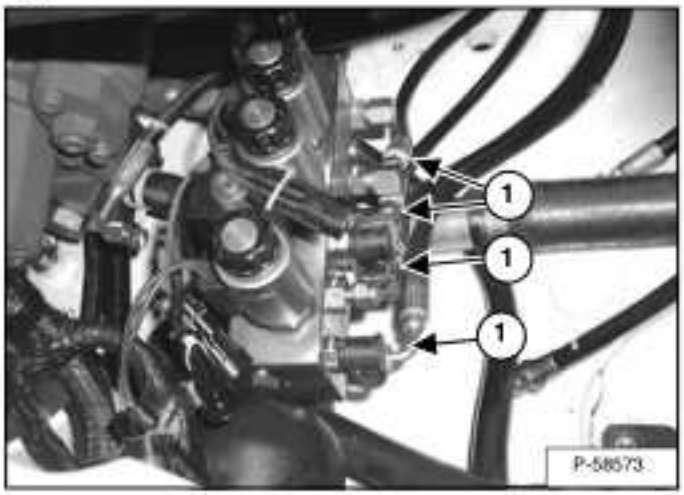
NOTE: The wire harness have colored cable ties for proper installation.

Figure 20-61-7



Remove the hoses (Item 1) **[Figure 20-61-7]**.

Figure 20-61-8



Remove the hoses (Item 1) **[Figure 20-61-8]**.

NOTE: If pilot pressure hose replacement is required, see Hoses for hose routing diagrams. (See HOSES on Page 20-114-1.)

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ELECTRICAL SYSTEM INFORMATION

Troubleshooting Chart

The following troubleshooting chart is provided for assistance in locating and correcting problems which are most common. Many of the recommended procedures must be done by authorized Bobcat Service personnel only.

⚠ WARNING

AVOID INJURY OR DEATH

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

PROBLEM	CAUSE
Battery will not take charge.	1, 2, 3, 4, 5
Alternator will not charge.	1, 2, 5
Starter will not turn engine.	2, 3, 4, 6, 7, 8, 9

KEY TO CORRECT THE CAUSE
1. Engine accessory drive belt is loose or damaged.
2. Battery connections are dirty or loose.
3. Battery is damaged.
4. The ground connection is not making a good contact.
5. The alternator is damaged.
6. The engine is locked.
7. The starter is damaged.
8. The wiring or the solenoid is damaged.
9. Check the fuses.

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Specifications (Cont'd)

All dimensions are given in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.

Thermostat

Valve Opening Temperature	176.9° - 182.3° F (80.5° - 83.5° C)
Valve Fully Open	203° F (95° C)

Engine Bolt Torque

	ft.-lb.	N•m
Camshaft Retainer Plate Bolts	17 - 20	23 - 27
* Connecting Rod Bolts	33 - 36	44 - 49
* Crankshaft Nut	101 - 116	137 - 157
* Cylinder Head Bolts	69 - 72	93 - 98
Drain Plug	30 - 36	39 - 49
* Flywheel Bolts	72 - 80	90 - 108
Fuel Camshaft Retainer Bolts	5 - 6	6,8 - 8,1
Fuel Injection Tubeline Fittings	11 - 18	15 - 25
Glow Plugs	15 - 18	20 - 25
* Idler Gear Shaft Bolt	17 - 20	23 - 27
Injection Nozzle Clamp	19 - 22	26 - 29
Injection Pump Mounting Bolts	17 - 20	23 - 27
* Main Bearing Bolts	51 - 54	69 - 73
* Main Bearing Case Bolts	34 - 38	46 - 51
Oil Switch	11 - 15	15 - 20
Rear Bearing Case Cover Bolts	17 - 20	24 - 28

* Lightly Oiled Threads

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WIRING SCHEMATIC

430 (S/N AACF11001 AND ABOVE)
(S/N AACG11001 AND ABOVE)
(S/N AA8711001 AND ABOVE)
(S/N AA8811001 AND ABOVE)

(PRINTED APRIL 2008)

CONTROL MODULE
CONNECTORS J1-J6

LH CONSOLE
HARNESS 7135275

RIGHT HAND CONSOLE
HARNESS 7135276

ENGINE HARNESS
6814829

V-0895 (4-16-08)

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