331
331E
334

Bobcat®

Service Manual

331 - S/N 234311001 - 234312999
331E - S/N 234411001 - 234411999
334 - S/N 234511001 - 234512999
(G Series)



6902743 (11-09)

Printed in U.S.A.

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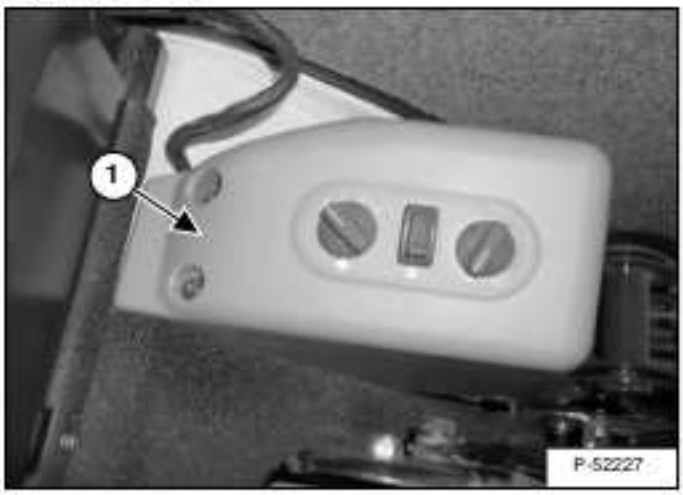
Troubleshooting The Swing (Upperstructure Slew) Circuit

TROUBLESHOOTING THE SWING (UPPERSTRUCTURE SLEW) CIRCUIT		
PROBLEM	**CAUSE**	**CORRECTION**
Slew not operating.	Control console raised.	Lower control console.
	Control console lock out switch incorrectly adjusted or defective.	Readjust or replace.
	Slew lock pin engaged.	Disengage lock pin.
	Joystick manifold pressure reducing valve defective.	Repair or replace.
	Slew motor gear defective.	Repair or replace.
	Joystick internal leakage excessive.	Repair or replace.
	Slew motor defective.	Repair or replace.
Slew force.	Main relief valve set too low.	Readjust or replace.
	Slew motor relief valve pressure too low.	Readjust or replace.
Slew speed too low.	Pump flow low.	Check, repair or replace.
	Blocked or restricted line to slew motor.	Replace.
	Joystick internal leakage excessive.	Repair or replace.
	Control valve internal leakage excessive.	Repair or replace.
	Slew motor internal leakage excessive.	Repair or replace.
Slew over run excessive.	Control valve spool sticking.	Repair or replace.
	Joystick spool sticking.	Repair or replace.
	Slew motor relief valve set too low.	Repair or replace.
	Slew motor internal leakage excessive.	Repair or replace.
Slew motor seal leakage.	Return line filter plugged.	Inspect, clean or replace.

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Checking The Electrical System (Cont'd)

Figure 70-80-29



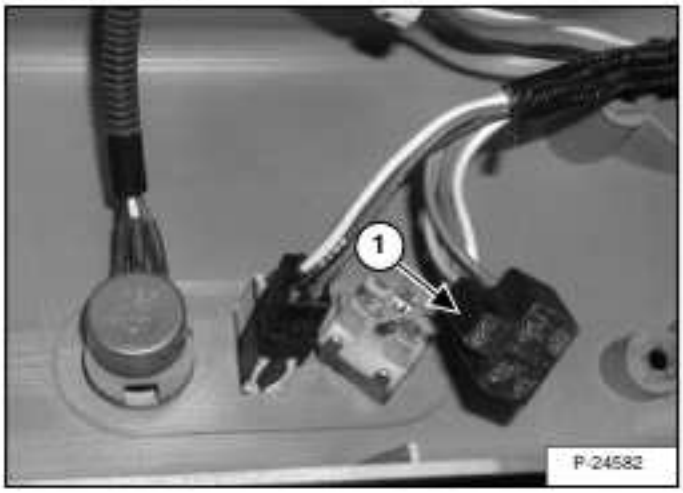
Remove the upper left upper console (Item 1) **[Figure 70-80-29]**. (See Upper Console Cover Removal And Installation on Page 40-60-2.)

Figure 70-80-30



Position the console and wiring harness in the cab so the wiring harness can be checked **[Figure 70-80-30]**.

Figure 70-80-31



Disconnect the wiring harness (Item 1) **[Figure 70-80-31]** from the blower switch.

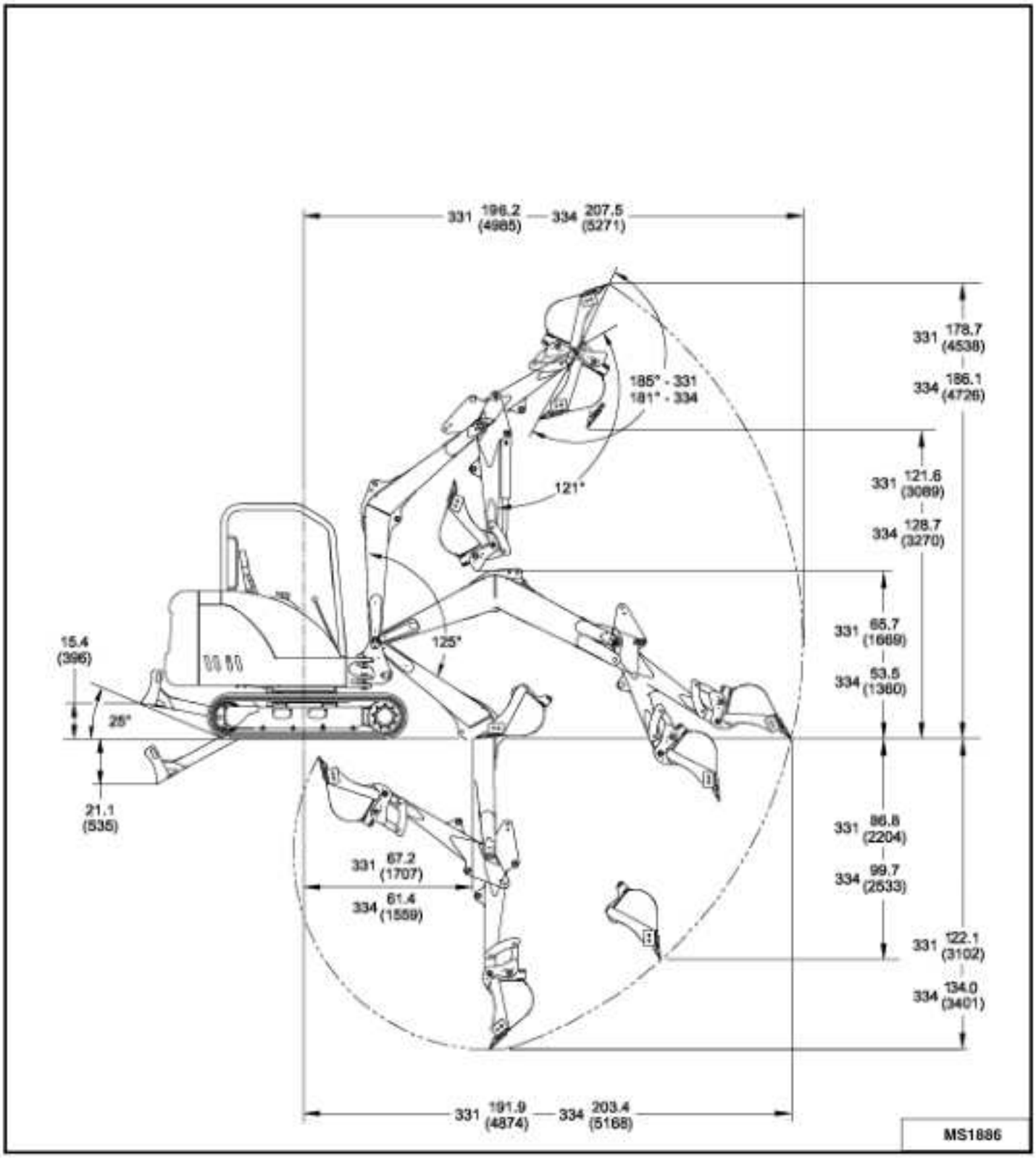
Check the harness for voltage. The voltage should be approximately 12 volts.

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

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331 & 334 Excavator Machine Dimensions (Cont'd)

- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



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SAFETY INSTRUCTIONS

Safety Alert Symbol

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

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-2003-0903

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107

WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

The following publications provide information on the safe use and maintenance of the Bobcat machine and attachments:

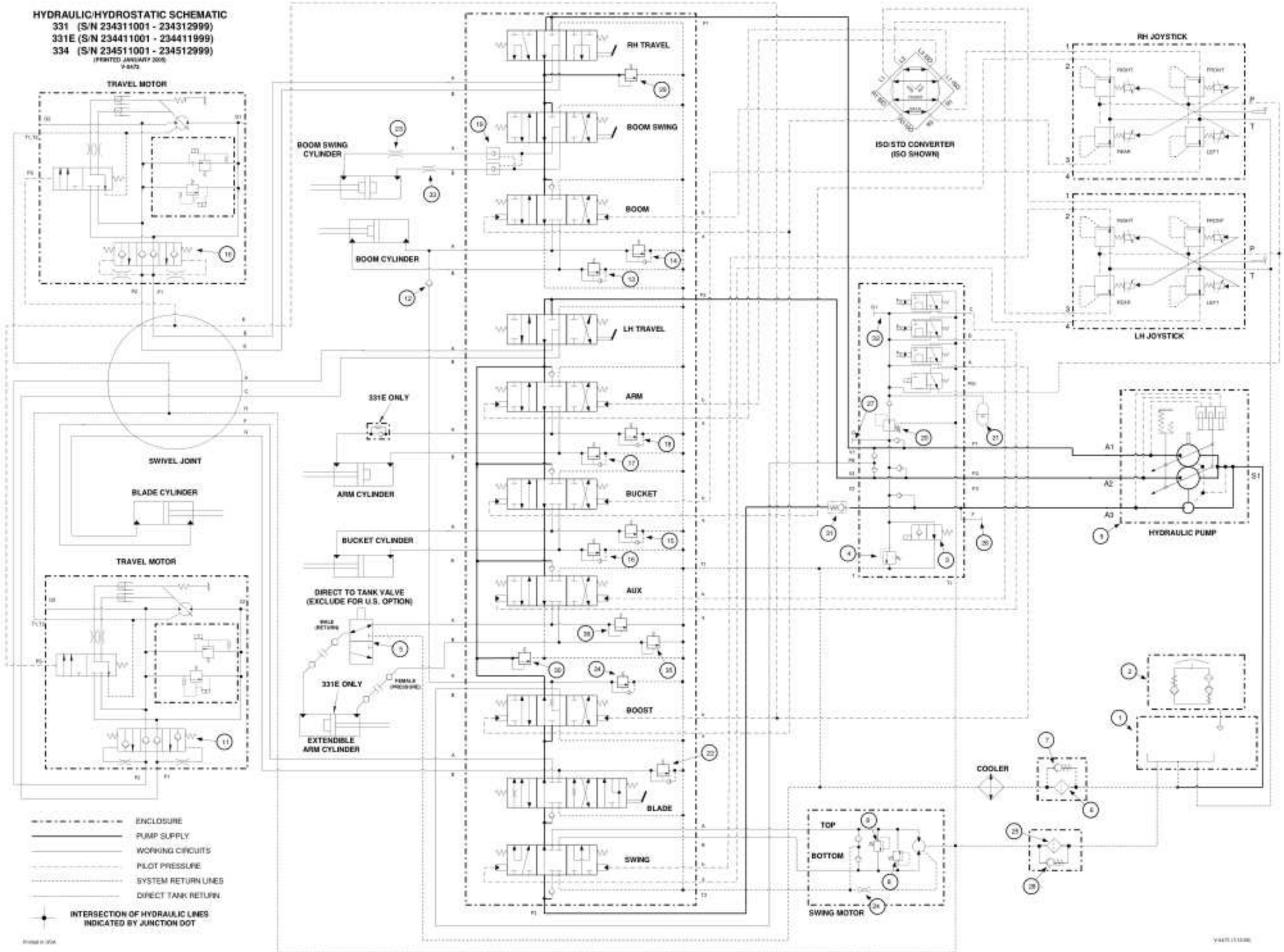
- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- An Operator's Handbook fastened to the operator cab. It's brief instructions are convenient to the operator. The handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The AEM Safety Manual delivered with the machine gives general safety information.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Compact Excavator Operator Training Course is available through your local dealer or at **www.training.bobcat.com** or **www.bobcat.com**. This course is intended to provide rules and practices of correct operation of the Bobcat excavator. The course is available in English and Spanish versions.
- Service Safety Training Courses are available from your Bobcat dealer or at **www.training.bobcat.com** or **www.bobcat.com**. They provide information for safe and correct service procedures.
- The Bobcat compact excavator Safety Video is available from your Bobcat dealer or at **www.training.bobcat.com** or **www.bobcat.com**.

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HYDRAULIC/HYDROSTATIC SCHEMATIC

331 (S/N 234311001 - 234312999)
331E (S/N 234411001 - 234411999)
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(PRINTED JANUARY 2008)
V-8473



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