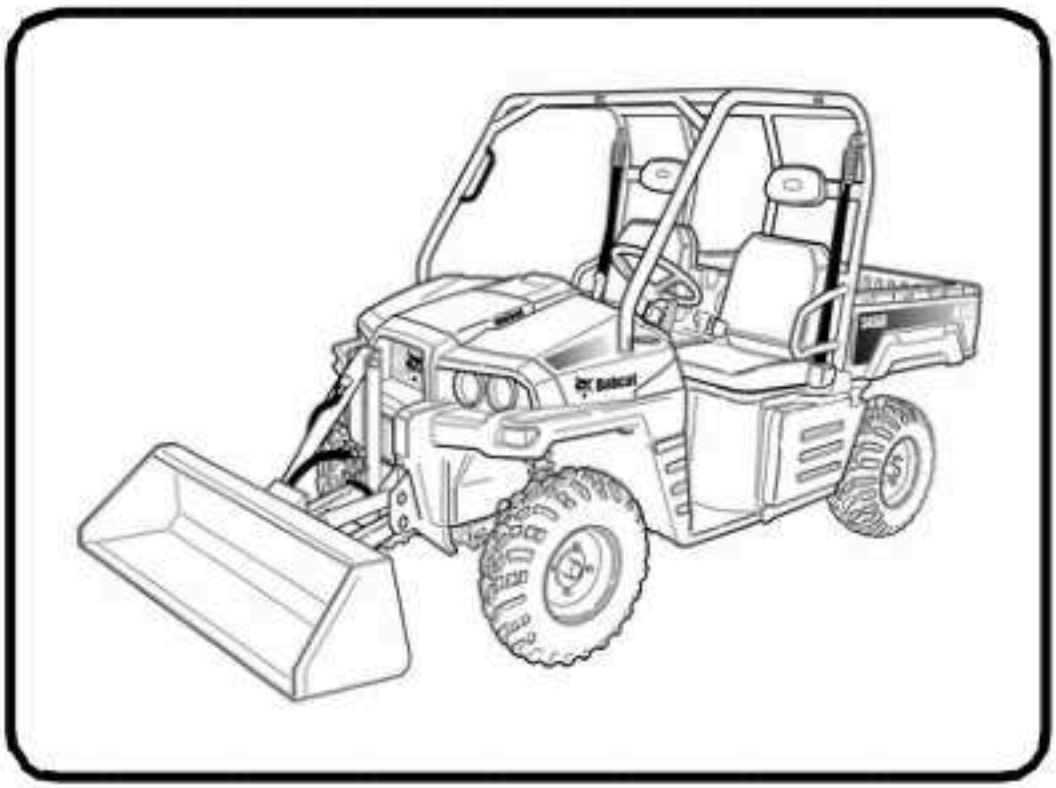
Bobcat®

Service Manual
3450 Utility Vehicle

S/N AJNY11001 & Above



6989610 (4-11)

Printed in U.S.A.

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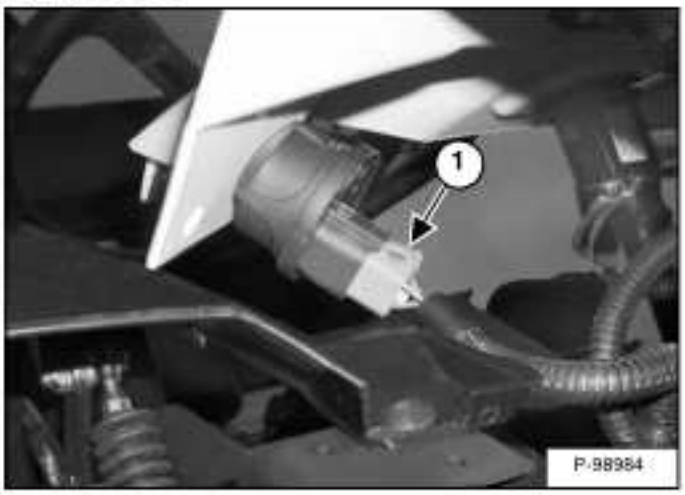
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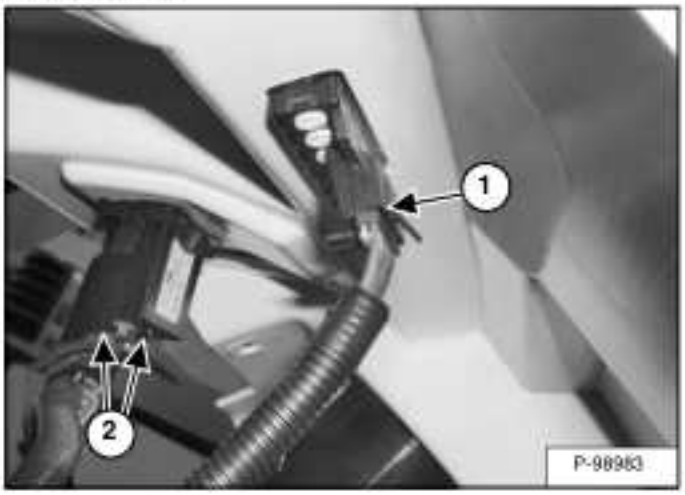
Left Dash Removal And Installation (Cont'd)

Figure 30-30-5



Raise the front of the dash and disconnect the ignition switch harness (Item 1) **[Figure 30-30-5]**.

Figure 30-30-6



Disconnect the indicator lamp harness (Item 1) and hour meter wires (Item 2) **[Figure 30-30-6]**.

Remove the dash.

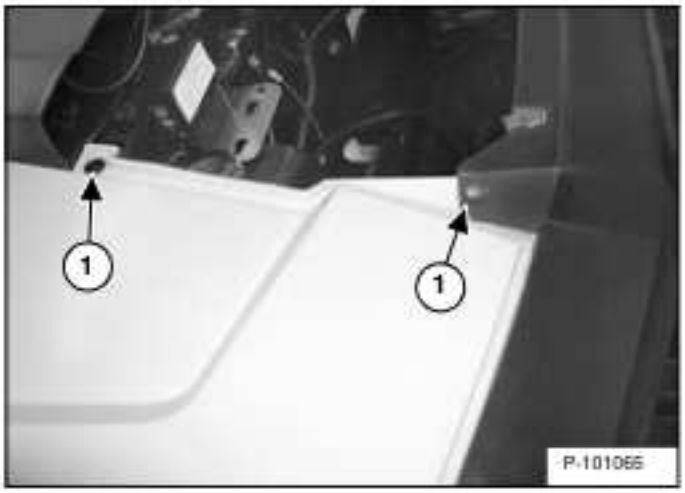
Right Dash Removal And Installation

NOTE: If the right dash is being replaced, the ROPS must be removed. (See Removal And Installation on Page 30-10-1.)

Remove the front access cover. (See Front Access Cover Removal And Installation on Page 30-30-1.)

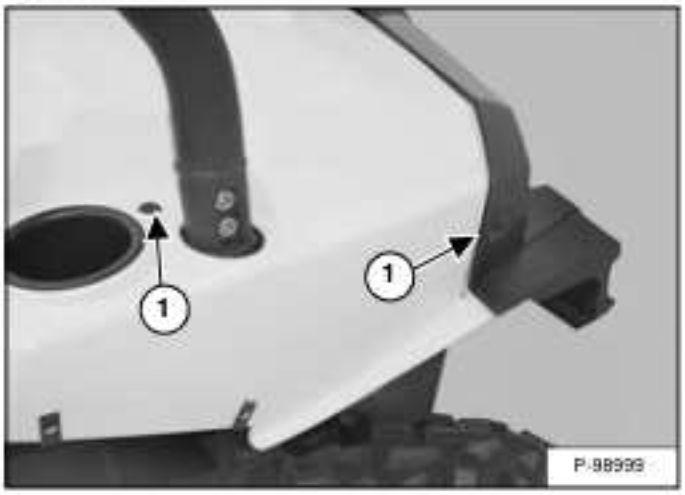
Remove the right fender flare. (See Flare Removal And Installation on Page 30-140-3.)

Figure 30-30-7



Remove the two screws (Item 1) **[Figure 30-30-7]**.

Figure 30-30-8



Remove the two screws (Item 1) **[Figure 30-30-8]**.

Installation: Tighten the nut to 38 - 43 N•m (28 - 32 ft-lb) torque.

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Specifications (Cont'd)

Camshaft

Item			Factory Specification	Allowable Limit
Cam Lobe Height	IN.		34,535 - 34,665 mm (1.3596 - 1.3648 in)	32,287 mm (1.3499 in)
	EX.		34,535 - 34,665 mm (1.3596 - 1.3648 in)	32,287 mm (1.3499 in)
Shaft Outside Diameter / Bearing Inside Diameter	Gear End	Inside Diameter	40,000 - 40,025 mm (1.5748 - 1.5758 in)	40,100 mm (1.587 in)
		Camshaft Outside Diameter	39,940 - 39,960 mm (1.5724 - 1.5732 in)	39,906 mm (1.5711 in)
		Oil Clearance	0,04 - 0,085 mm (0.0016 - 0.0033 in)	0,154 mm (0.0061 in)
	Intermediate	Inside Diameter	40,000 - 40,025 mm (1.5748 - 1.5758 in)	39,875 mm (1.699 in)
		Camshaft Outside Diameter	39,910 - 39,935 mm (1.5713 - 1.5722 in)	39,875 mm (1.5699 in)
		Oil Clearance	0,065 - 0,115 mm (0.0026 - 0.0045 in)	0,225 mm (0.0089 in)
	Flywheel End	Inside Diameter	40,000 - 40,025 mm (1.5748 - 1.5758 in)	40,100 mm (1.5787 in)
		Camshaft Outside Diameter	39,940 - 39,960 mm (1.5724 - 1,5732 in)	39,906 mm (1.5711 in)
		Oil Clearance	0,040 - 0,085 mm (0.0016 - 0.0033 in)	0,154 mm (0.0061 in)

Piston

Item	Factory Specification	Allowable Limit
Outer Diameter (Std)	71,960 - 71,980 mm (2.8331 - 2.8343 in)	71,915 mm (2.8313 in)
Piston Diameter Measurement	10 - 13 mm (0.3937 - 0.5118 in)	-
Piston-to-Cylinder Clearance	0,010 - 0,070 mm (0.0004 - 0.0028 in)	-

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Radiator Removal And Installation

Remove the cooling fan. (See Cooling Fan Removal And Installation on Page 50-50-4.)

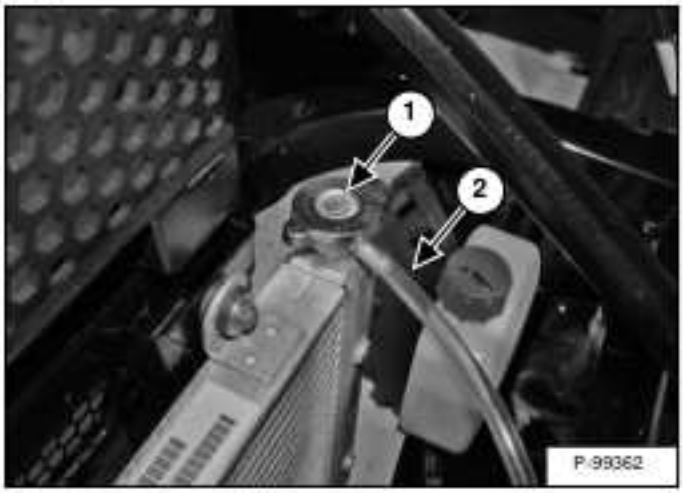
Remove the radiator shroud. (See Shroud Removal And Installation on Page 50-50-5.)

⚠ WARNING

Never remove radiator cap when engine is warm or hot. The cooling system is under pressure and serious burns may result. Allow the engine and cooling system to cool before servicing.

W-2867-0510

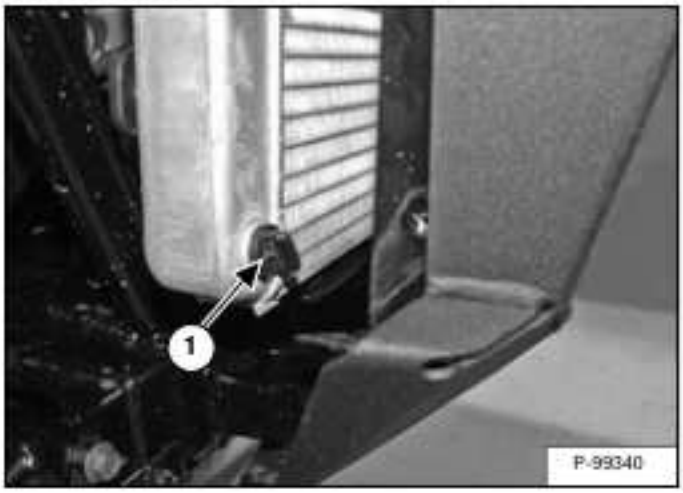
Figure 50-50-1



Remove the radiator cap (Item 1) **[Figure 50-50-1]** from the radiator.

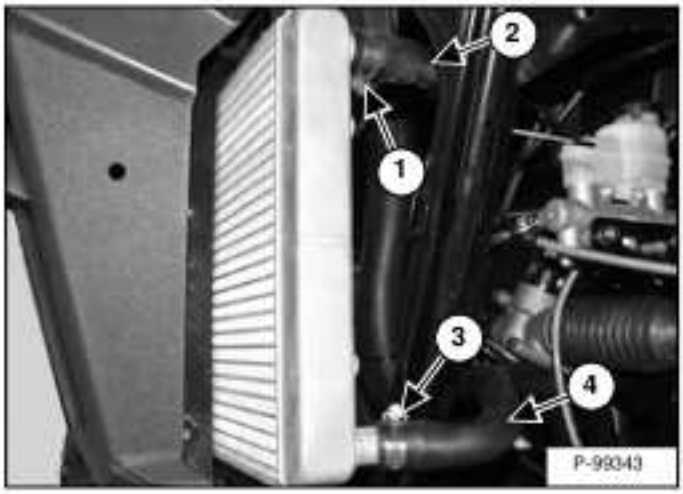
Disconnect the overflow hose (Item 2) **[Figure 50-50-1]** from the radiator.

Figure 50-50-2



Open the drain valve (Item 1) **[Figure 50-50-2]** on the front side of the radiator and allow the coolant to completely drain into a suitable container. Properly dispose of the used coolant.

Figure 50-50-3



Loosen the clamp (Item 1) and remove the outlet radiator hose (Item 2) **[Figure 50-50-3]**.

Loosen the clamp (Item 3) and remove the inlet radiator hose (Item 4) **[Figure 50-50-3]**.

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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

Operator must have instructions before operating the utility vehicle. Untrained operators can cause injury or death.

W-2855-0510

IMPORTANT

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

I-2317-0510

DANGER

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

D-1022-0510

WARNING

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

W-2856-0510

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

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the vehicle is in safe operating condition.
- The Operation & Maintenance Manual delivered with the vehicle or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the vehicle and can be stored in a container provided on the vehicle. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Safety signs (decals) instruct on the safe operation and care of your Bobcat utility vehicle 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 Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Utility Vehicle 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 Utility Vehicle. The course is available in English and Spanish versions.
- The Utility Vehicle Safety Video is available from your Bobcat dealer or at **www.training.bobcat.com** or **www.bobcat.com**.

SI UV-0510 SM

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FLOAT RELAY

FLOAT SWITCH

FLOAT OFF RELAY

SEE ELECTRICAL SCHEMATIC

ORG/WHT

ORG

LBL

BRN

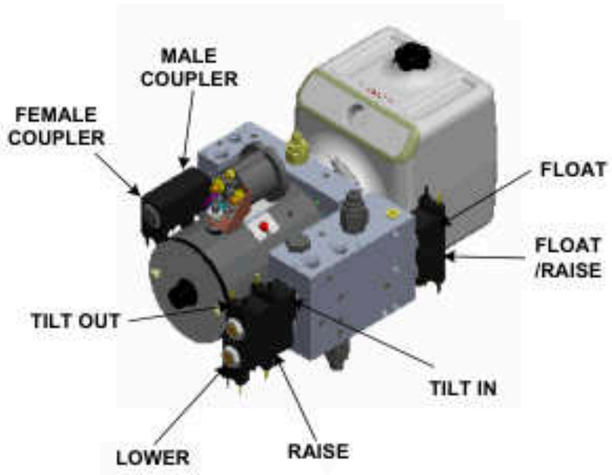
BLK

WHT

DBL

PUR

LBL/BLK



TILT SWITCH (TILT OUT)

YEL/BLK

GRN

ARM SWITCH (LOWER)

TILT SWITCH (TILT IN)

YEL

ARM SWITCH (RAISE)

HYDRAULIC PUMP C1

RAISE

FLOAT /RAISE

FLOAT

LOWER

TILT OUT

TILT IN

HYDRAULIC PUMP

HYDRAULIC DRIVE MOTOR RELAY

M

DRIVE MOTOR

RED

150 AMP CIRCUIT BREAKER

BATTERY

+

-

AUXILIARY SWITCH (IF EQUIPPED)

GRY/WHT

GRY

HYDRAULIC PUMP C2

FEMALE COUPLER

MALE COUPLER

3450 ELECTRICAL SCHEMATIC ATTACHMENT ARM S/N AJNY11001 AND ABOVE

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