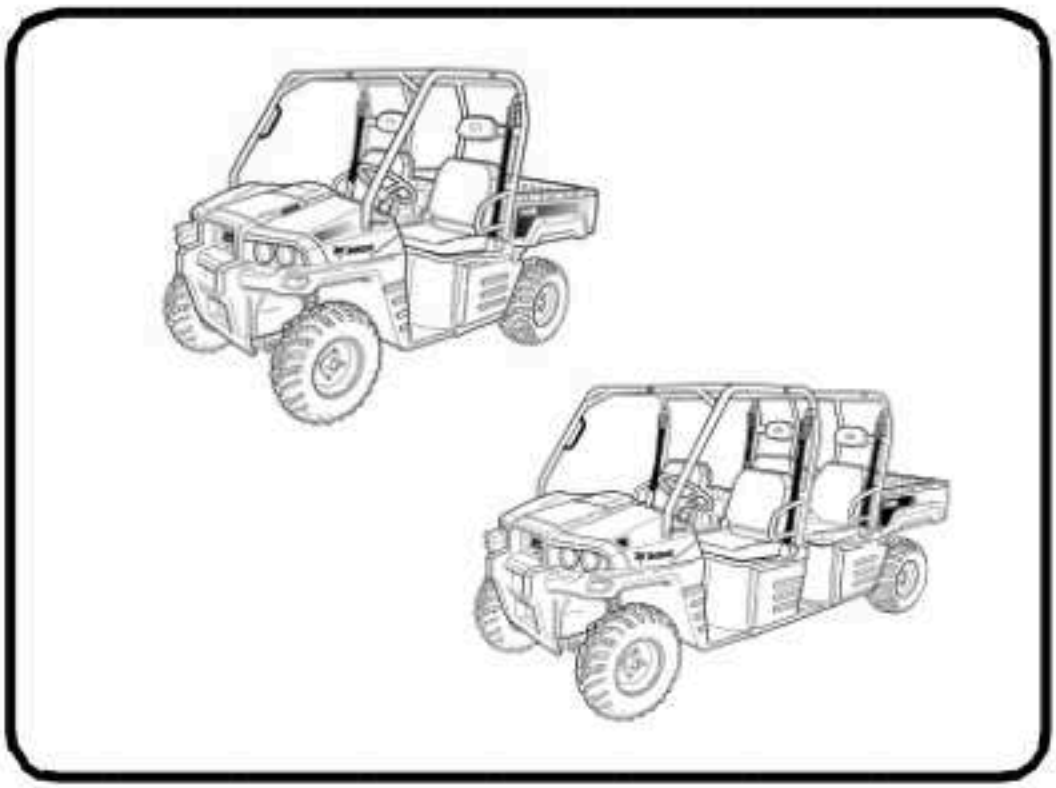
Bobcat®

Service Manual
3400, 3400XL Utility Vehicle

S/N AJNU11001 & Above
S/N AJNW11001 & Above



6989606 (4-11)

Printed in U.S.A.

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CONTENTS

SAFETY & MAINTENANCE 10-01

DRIVE SYSTEM 20-01

MAINFRAME 30-01

ELECTRICAL SYSTEM & ANALYSIS 40-01

ENGINE SERVICE 50-01

SPECIFICATIONS SPEC-01

ALPHABETICAL INDEX INDEX-01

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FOREWORD 1-7

SAFETY INSTRUCTIONS 1-9

FIRE PREVENTION 1-11
- Maintenance 1-11
- Operation 1-11
- Electrical 1-11
- Fueling 1-11
- Starting 1-11
- Spark Arrestor Exhaust System 1-11
- Welding And Grinding 1-11
- Fire Extinguishers 1-12

SERIAL NUMBER LOCATIONS 1-13
- Utility Vehicle Serial Number 1-13
- Engine Serial Number 1-13

DELIVERY REPORT 1-14

UTILITY VEHICLE IDENTIFICATION (3400) 1-15

UTILITY VEHICLE IDENTIFICATION (3400XL) 1-16

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System Troubleshooting (Cont'd)

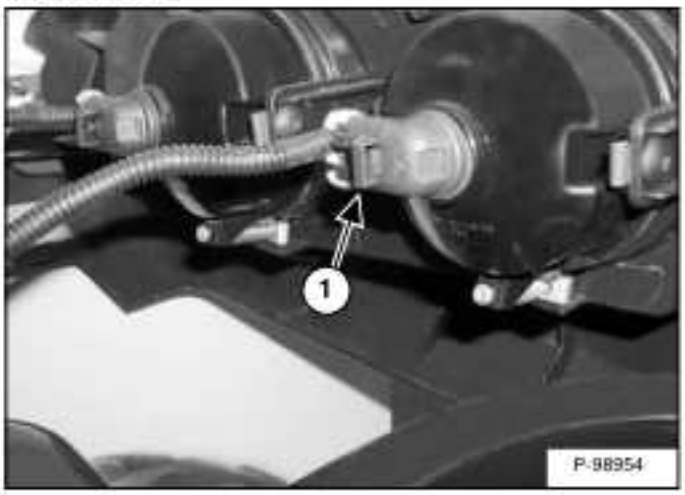
ENGINE		
PROBLEM	CAUSE	SOLUTION
Water ingestion	Cover seals or ducts leaking.	Find leak and repair as necessary.
	Operator error.	Instruct operator on guidelines for operation in wet terrain as outlined in the Operation & Maintenance Manual.
Belt slippage	Belt worn out.	Replace belt.
	Water ingestion.	Inspect and seal CVT system.
	Belt contaminated with oil or grease.	Inspect and clean.
CVT noise	Belt worn or separated, thin spots, loose belt.	Replace belt.
	Broken or worn clutch components, cover hitting clutches.	Inspect and repair as necessary.
Engagement erratic or stabby	Thin spots on belt, worn belt.	Replace belt. Refer to belt burnout troubleshooting and instruct operator.
	Drive clutch bushings stick.	Inspect and repair clutches.

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LIGHTS

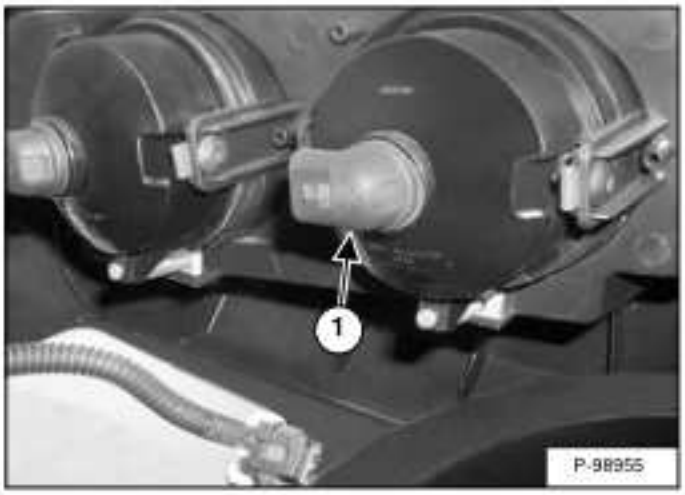
Headlight Removal And Installation

Figure 40-60-1



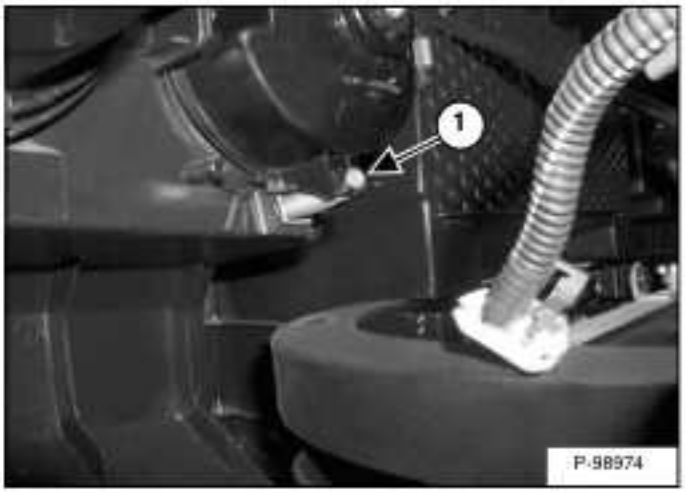
Disconnect the wiring harness (Item 1) **[Figure 40-60-1]**.

Figure 40-60-2



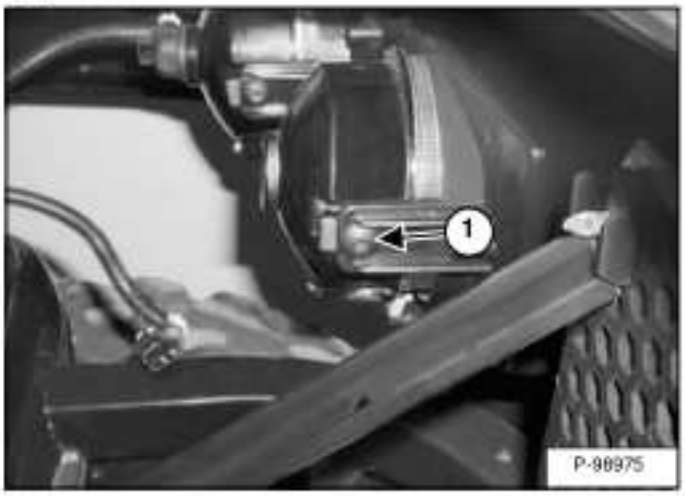
Rotate the bulb (Item 1) **[Figure 40-60-2]** counter clockwise and remove from the light housing.

Figure 40-60-3



Remove the alignment screw (Item 1) **[Figure 40-60-3]**.

Figure 40-60-4



Remove the screw (Item 1) **[Figure 40-60-4]**.

Remove the housing.

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Specifications (Cont'd)

Oil Pump

Item		Factory Specification	Allowable Limit
Engine oil pressure at 5500 rpm (Engine Hot)	At rated speed	289,6 - 441,3 kPa (1,38 bar) (42 - 64 psi)	
Outer Rotor Outside Clearance		0,10 - 0,16 mm (0.0039 - 0.0063 in)	0,25 mm (0.0098 in)
Outer Rotor Side Clearance		0,05 - 0,10 mm (0.0019 - 0.0039 in)	0,15 mm (0.0059 in)
Outer Rotor To Inner Rotor Tip Clearance			0,16 mm (0.0063 in)

Thrust Bearing

Item	Factory Specification	Limit
Crankshaft End Play - All Models	0,111 - 0,250 mm (00044 - 0.0098 in)	0,28 mm (0.0110 in)
Bearing Thickness	1,930 - 1,980 mm (0.0760 - 0.0780 in)	1,850 mm (0.0728 in)

Thermostat

Valve opening temperature at beginning	70 - 73°C (157 - 163°F)
Opened completely (height 8,0 mm (0.315 in)	85°C (185°F)

Radiator

Radiator Tightness	Retain 68,9 kPa (0,69 bar) (10 psi) for five minutes or longer
Radiator Cap Pressure	89,6 kPa (0,90 bar) (13 psi)

Ignition Timing

Ignition timing (BTDC)	28° - 32° Before top dead center @ 5,000 rpm

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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.

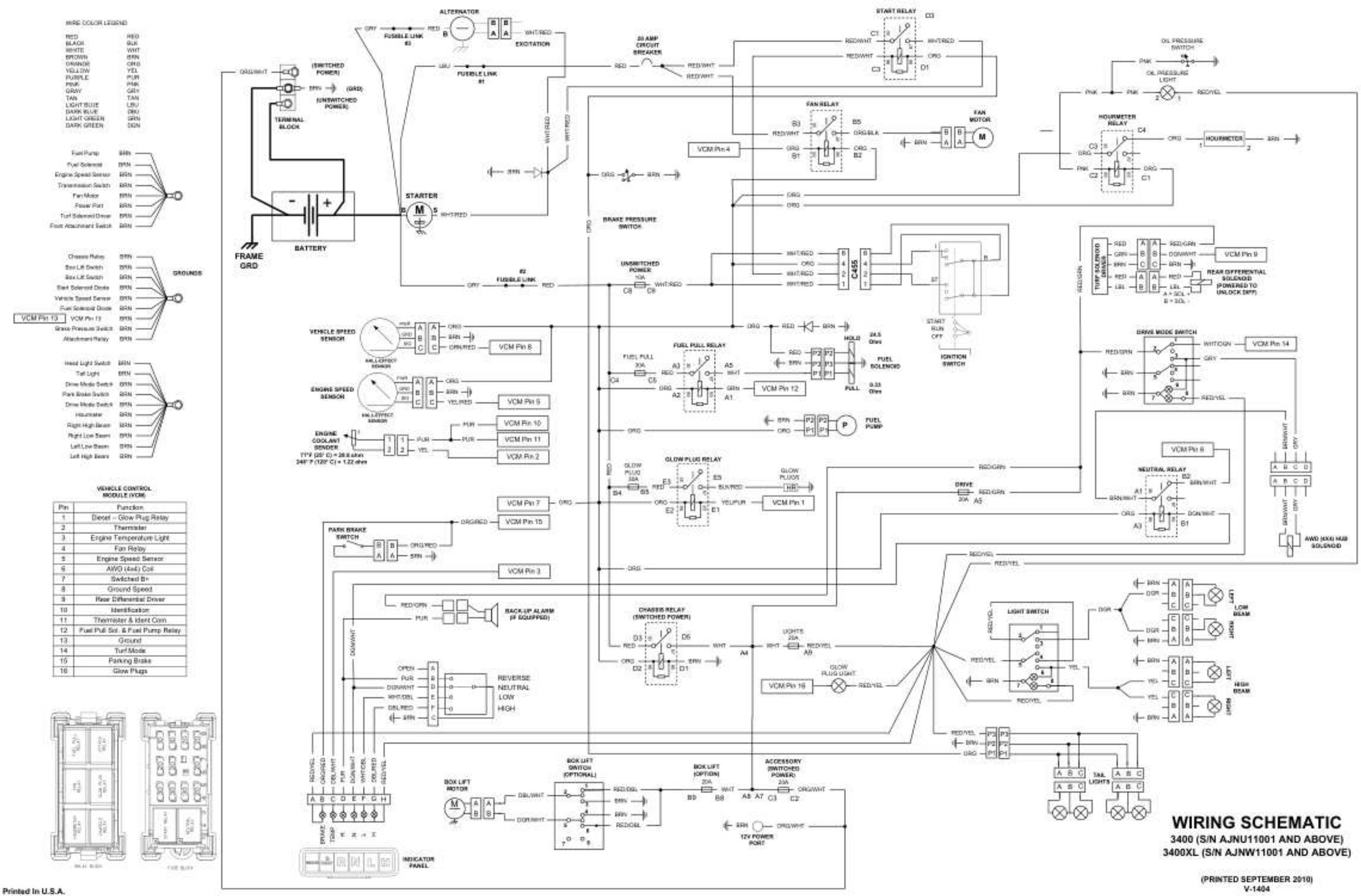
W-2856-0510

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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VEHICLE CONTROL MODULE (VCM)

Pin	Function
1	Diesel – Glow Plug Relay
2	Thermister
3	Engine Temperature Light
4	Fan Relay
5	Engine Speed Sensor
6	AWD (4x4) Coil
7	Switched B+
8	Ground Speed
9	Rear Differential Driver
10	Identification
11	Thermister & Ident Conn
12	Fuel Pull Sol. & Fuel Pump Relay
13	Ground
14	Turf Mode
15	Parking Brake
16	Glow Plugs

WIRING SCHEMATIC

3400 (S/N AJNU11001 AND ABOVE)
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