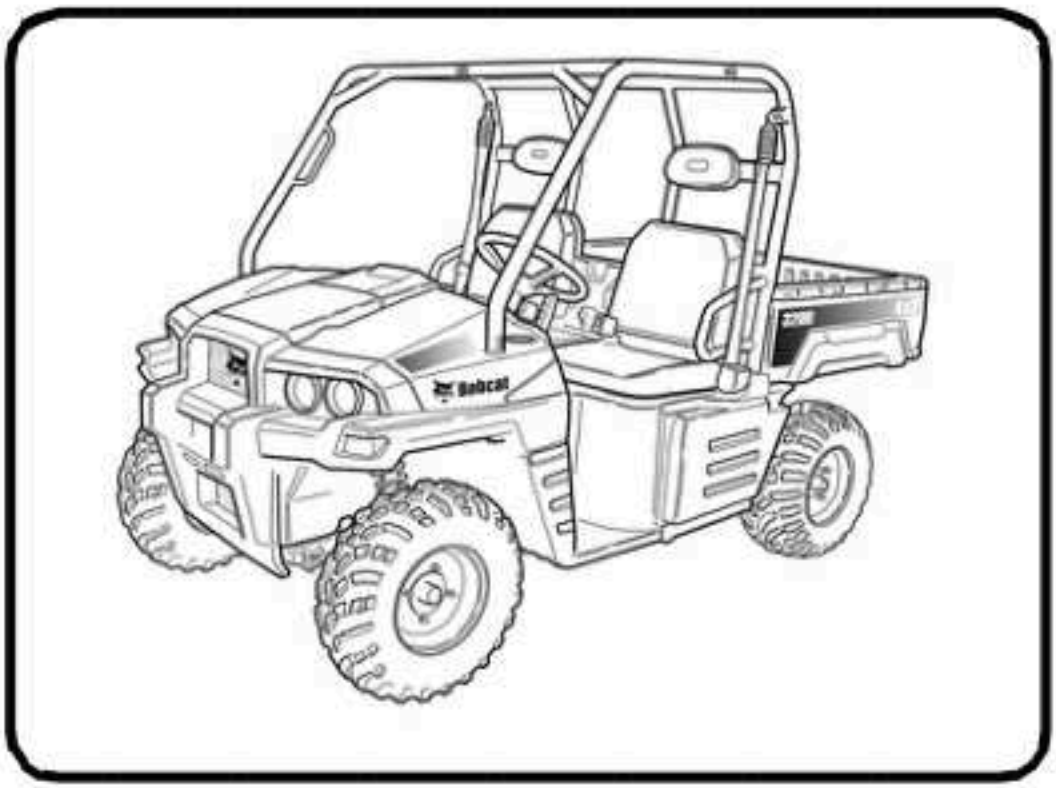
Bobcat®

Service Manual
3200 Utility Vehicle

S/N AJNS11001 & Above



6989598 (9-10)

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Noise Troubleshooting

Dirt or dust buildup on the brake pads and disc is the most common cause of brake noise (squeal caused by vibration). If cleaning does not reduce the occurrence of brake noise, Permatex™ Disc Brake Quiet can be applied to the back of the pads. Follow directions on the package. This will keep pads in contact with caliper piston(s) to reduce the chance of squeaks caused by dirt or dust.

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

⚠ WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual 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-2408-0801

BRAKE NOISE TROUBLESHOOTING	
POSSIBLE CAUSE	SOLUTION
Dirt, dust or imbedded material on pads or disc	Spray disc and pads with CRC Brakeleen™ or an equivalent non-flammable aerosol brake cleaner. Remove pads and / or disc hub to clean imbedded material from disc or pads.
Pad(s) dragging on disc (noise or premature pad wear) because of improper adjustment	Adjust pad stop (front calipers)
Master cylinder reservoir overfilled	Set to proper level
Master cylinder compensating port restricted	Clean compensating port
Master cylinder piston not returning completely	Inspect. Repair as necessary
Caliper piston(s) not returning	Clean piston(s) seal
Operating error (riding the brake)	Educate operator
Loose wheel hub or bearings	Check wheel and hub for abnormal movement
Brake disc warped or excessively worn	Replace disc
Brake disc misaligned or loose	Inspect and repair as necessary
Noise is from other source (axle, hub, disc or wheel)	If noise does not change when brake is applied check other sources. Inspect and repair as necessary
Wrong pad for conditions	Change to a softer or harder pad

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Ignition System Troubleshooting

No Spark, Weak or Intermittent Spark

- Spark plug gap incorrect
- fouled spark plug
- Faulty spark plug cap or poor connection to high tension lead
- Related wiring loose, disconnected, shorted, or corroded
- Faulty ignition switch
- Wire harness or connections wet, corroded
- Poor ignition coil ground (e.g. coil mount loose or corroded)
- Faulty stator (measure resistance of all ignition related windings)
- Incorrect wiring (inspect color coding in connectors etc.)
- Faulty ignition coil winding (measure resistance of primary and secondary)
- Worn magneto (RH) end crankshaft bearings
- Sheared flywheel key
- Flywheel loose or damaged
- Trigger coil air gap too wide (where applicable) - should be 0.016 - 030 in. (0,4 - 0,75 mm)
- Excessive crankshaft runout on magneto (RH) end - should not exceed 0.0024 in.
- Faulty CDI module

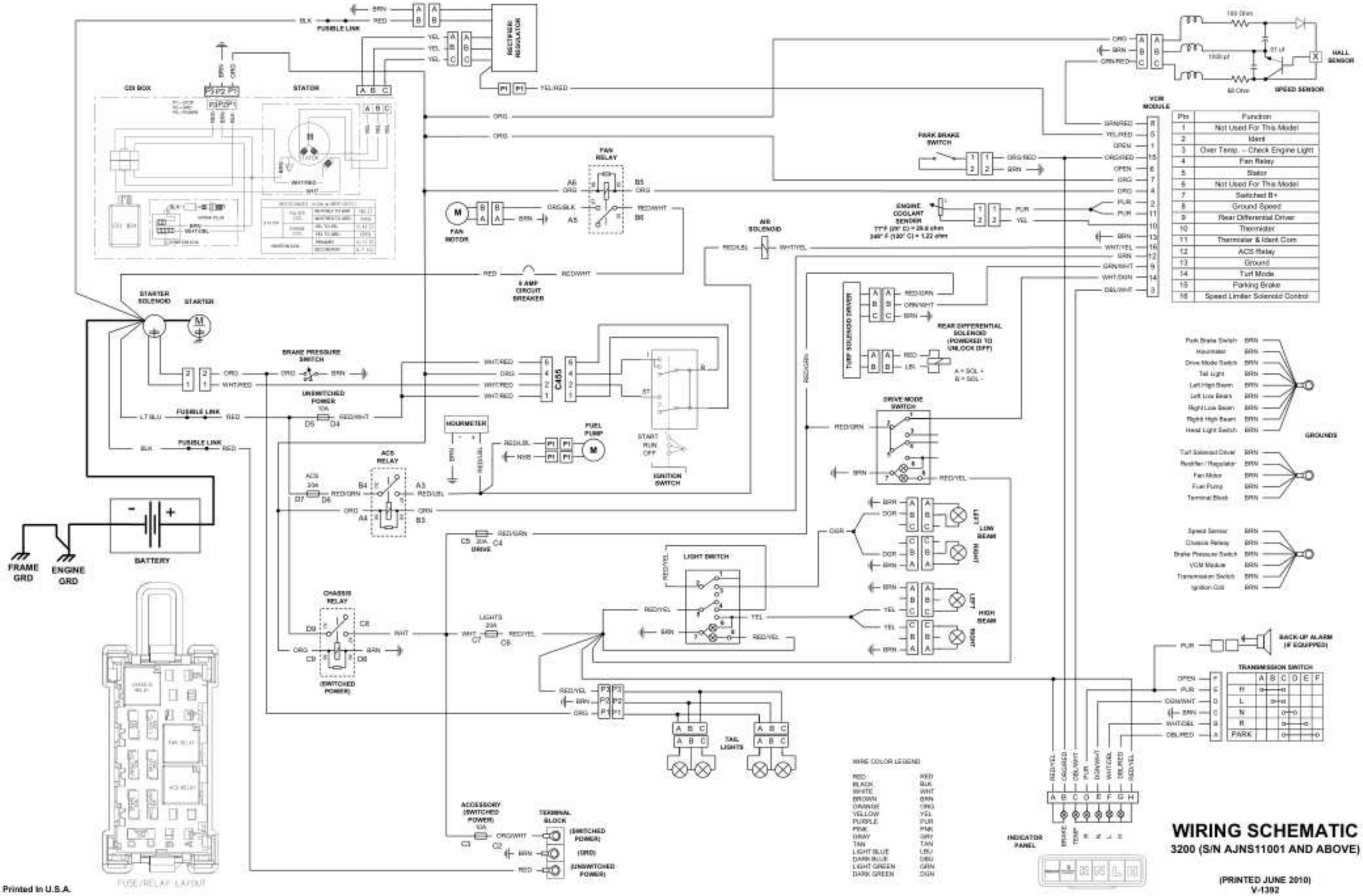
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Torque Values

TORQUE SPECIFICATIONS		
Fastener	Size	EH46PLE ft.-lb. (N•m)
Blind Plug (Oil Pressure)	1/8 PT (28 tpi)	6.5 - 11 (9 - 15)
Camshaft Sprocket	6 mm	5 - 6.5 (7 - 9)
Camshaft Chain Tensioner Lever	6 mm	5 - 6.5 (7 - 9)
Camshaft Chain Tensioner	6 mm	5 - 6.5 (7 - 9)
Camshaft Chain Tensioner Cap	11 mm	6.5 (9)
Carburetor Adaptor	8 mm	12 - 14 (16 - 20)
Crankcase	8 mm	14 - 15 (19 - 21)
Crankshaft Slotted Nut (Cam Chain Drive Sprocket)	28 mm	35 - 51 (47 - 69)
Cylinder Base Bolts	10 mm 6 mm	45 - 49 (61 - 67) 6 - 8 (9 - 11)
Cylinder Head Bolts	11 mm 6 mm	Refer to engine assembly for torque procedure
Drive Clutch Bolt	7/16 - 20	40 (55)
Flywheel	16 mm	58 - 72 (78 - 98)
Oil Delivery Pipe	12 mm	11 - 15 (15 - 21)
Oil Drain Bolt (Crankcase)	14 mm	14 - 17 (19 - 23)
Oil Filter Pipe Fitting	20 mm	36 - 43 (49 - 59)
Hard Metal Oil Line Banjo Fitting	N/A	11 - 16 (15 - 21)
Oil Hose Fitting	1/8 Pipe Thread	6.5 - 11 (9 - 15)
Oil Pump	6 mm	5 - 6.5 (7 - 9)
Oil Pump Case Screw	5 mm	1.5 - 2 (2 - 3)
One Way Valve	11 mm	14 - 19 (20 - 25)
Recoil Housing	6 mm	5 - 6.5 (7 - 9)
Rocker Cover	6 mm	7 - 8 (9 - 11)
Rocker Support	8 mm	8 - 10 (11 - 13)
Rocker Adjuster Screw	6 mm	6 - 7 (8 - 10)
Water Pump Impeller Nut	6 mm	5 - 6.5 (7 - 9)
Water Pump Housing Cover	6 mm	5 - 6.5 (7 - 9)
Stator Plate	6 mm	5 - 6.5 (7 - 9)
Starter Motor	6 mm	5 - 6.5 (7 - 9)
Spark Plug	14 mm	9 - 11 (12 - 15)
Thermistor	--	26 ± 2.1 (35 ± 3)

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Pin	Function
1	Not Used For This Model
2	Ident
3	Over Temp. - Check Engine Light
4	Fan Relay
5	Stator
6	Not Used For This Model
7	Switched B+
8	Ground Speed
9	Rear Differential Driver
10	Thermister
11	Thermister & Ident Com
12	ACS Relay
13	Ground
14	Turf Mode
15	Parking Brake
16	Speed Limiter Solenoid Control

FUSE/RELAY LAYOUT

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WIRING SCHEMATIC

3200 (S/N AJNS11001 AND ABOVE)

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