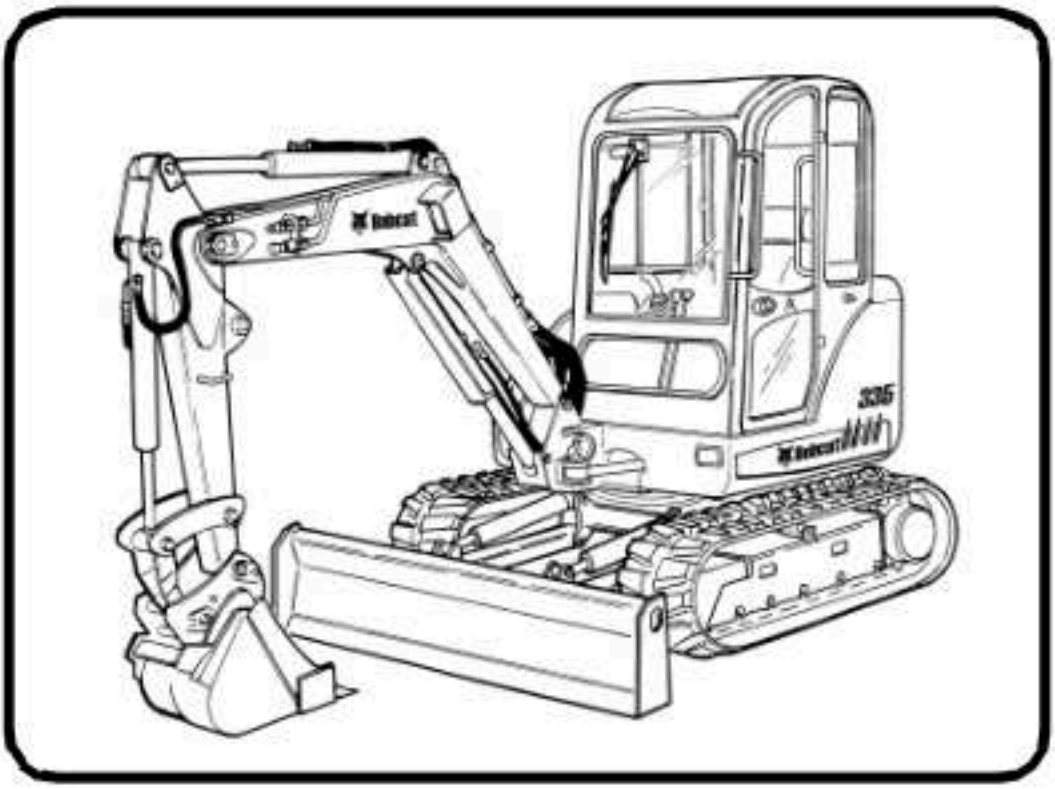
Bobcat®

Service Manual
335 Compact Excavator

S/N A16U11001 & Above



6904775 (12-07)

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ALPHABETICAL INDEX

ACCESSORY DRIVE BELT 10-01
AIR CLEANER 60-01
AIR CLEANER SERVICE 10-01
AIR CONDITIONING SYSTEM FLOW 70-01
ALTERNATOR 50-01
ANGLE BLADE 30-01
ANBLE BLADE ASSEMBLY 30-01
ANGLE BLADE CUTTING EDGE 30-01
ANGLE BLADE CYLINDER 20-01
ANGLE BLADE VALVE 20-01
ARM 40-01
ARM CYLINDER 20-01

BATTERY 50-01
BLADE 30-01
BLADE CONTROL 40-01
BLADE CYLINDER 20-01
BLOWER FAN 70-01
BOOM 40-01
BOOM CYLINDER 20-01
BOOM SWING CYLINDER 20-01
BOOM SWING LOCK VALVE 20-01
BOOM SWING PEDAL 20-01
BUCKET 40-01
BUCKET CYLINDER 20-01

CAB 40-01
CAMSHAFT AND TIMING GEARS 60-01
CANOPY 40-01
CASE DRAIN FILTER 20-01
COMPRESSOR 70-01
CONDENSOR 70-01
CONVERSIONS SPEC-01
CONTROL PATTERN SELECTOR VALVE 20-01
CRANKSHAFT AND PISTONS 60-01
CROSS PORT RELIEF VALVES 20-01
CYLINDER HEAD 60-01

DIAGNOSTICS SERVICE CODES 50-01
DIRECT TO TANK VALVE 20-01
DIVERTER VALVE 20-01

ELECTRICAL SYSTEM INFORMATION 50-01
ENGINE COOLING SYSTEM 10-01, 60-01
ENGINE INFORMATION 60-01
ENGINE LUBRICATION SYSTEM 10-01
ENGINE SPEED CONTROL 60-01
EVAPORATOR COIL 70-01
EVAPORATOR/HEATER UNIT 70-01
EVAPORATOR SPECIFICATIONS SPEC-01

EXCAVATOR STORAGE AND RETURN TO SERVICE 10-01
EXPANSION VALVE 70-01
FAN 60-01
FLOORMAT AND FLOOR PANEL 40-01
FUEL LEVEL SENDER 50-01
FUEL SYSTEM 10-01, 60-01
FUEL TANK 40-01
FLYWHEEL AND HOUSING 60-01

HEATER COIL 70-01
HEATER VALVE 70-01
HORN 40-01
HYDRAULIC CONTROL VALVE 20-01
HYDRAULIC CONNECTION SPECIFICATIONS SPEC-01
HYDRAULIC FLUID SPECIFICATIONS SPEC-01
HYDRAULIC FILTER 20-01
HYDRAULIC PUMP 20-01
HYDRAULIC PUMP START-UP 20-01
HYDRAULIC RESERVOIR 20-01
HYDRAULIC SYSTEM 10-01
HYDRAULIC SYSTEM INFORMATION 20-01
HYDRAULIC X-CHANGE VALVE 20-01

LEFT CONTROL LEVER (JOYSTICK) 20-01
LEFT CONSOLE 40-01
LIFTING AND BLOCKING THE EXCAVATOR 10-01
LIFTING THE EXCAVATOR 10-01
LIGHTS 50-01
LUBRICATING THE EXCAVATOR 10-01
LUBRICATION SYSTEM 60-01

MAGNETIC LOCKOUT SENSOR 50-01
MAIN RELIEF VALVE 20-01
MANIFOLD ASSEMBLY/ACCUMULATOR 20-01

OIL COOLER 20-01
OPERATOR CAB (ROPS/TOPS) 10-01

PIVOT PINS 10-01
PORT RELIEF VALVES 20-01
PRESSURE REDUCING VALVE 20-01

RECEIVER/DRIER 70-01
REGULAR MAINTENANCE 70-01
RIGHT CONTROL LEVER (JOYSTICK) 20-01
RIGHT CONSOLE 40-01
RIGHT SIDE COVER 10-01, 40-01

Continued On Next Page

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SAFETY 70-01
SEAT AND SEAT MOUNT 40-01
SEAT BELT 10-01
SERVICE SCHEDULE 10-01
SPARK ARRESTOR MUFFLER 10-01, 60-01
STARTER 50-01
STOPPING THE ENGINE AND LEAVING THE EXCAVATOR 10-01
SWING CIRCLE GEAR 30-01
SWING FRAME 40-01
SWING MOTOR 20-01
SWING MOTOR DRIVE CARRIER 20-01
SWIVEL JOINT 20-01
SYSTEM CHARGING AND RECLAMATION 70-01

TAILGATE 10-01, 40-01
THERMOSTAT 70-01
TORQUE SPECIFICATIONS FOR BOLTS SPEC-01
TRACK FRAME COMPONENTS 30-01
TRANSPORTING THE EXCAVATOR ON A TRAILER 10-01
TRAVEL CONTROL VALVE 20-01
TRAVEL LEVER/PEDALS 40-01
TRAVEL MOTOR 10-01, 20-01
TROUBLESHOOTING 70-01

UPPERSTRUCTURE 40-01
UPPERSTRUCTURE SLEW LOCK 10-01, 40-01

X-CHANGE 40-01
X-CHANGE (HYDRAULIC) 40-01

MidWestTech | Bobcat 335 Compact Excavator Service Manual | Publication 6904775_12_... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD III

SAFETY INSTRUCTIONS V

SERIAL NUMBER LOCATIONS IX

DELIVERY REPORT X

EXCAVATOR IDENTIFICATION XI

SAFETY AND MAINTENANCE 10-01

HYDRAULIC SYSTEM 20-01

UNDERCARRIAGE 30-01

UPPERSTRUCTURE & SWING SECTION 40-01

ELECTRICAL SYSTEM AND ANALYSIS 50-01

ENGINE SERVICE 60-01

HEATING, VENTILATION, AIR CONDITIONING 70-01

SPECIFICATIONS SPEC-01

MidWestTech | Bobcat 335 Compact Excavator Service Manual | Publication 6904775_12_... Order the manual at mid-west-tech.com >

Specifications

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

Fuel Injection Nozzles

Opening Pressure	2702-2916 PSI (186-201 bar)
Fuel Tightness Nozzle Seat	Dry Nozzle at 1850 PSI (127,5 bar)

Fuel Injection Pump

Fuel Tightness Plunger	10 sec: initial pressure 1850 PSI (127,5 bar)
Allowable Limit	5 seconds
Injection Timing	4.5-6.5 degrees B.T.D.C.
High Idle	2620 RPM
Low Idle	1195-1245 RPM

Cylinder Head

Cylinder Head Surface Distortion	0.002 (0,05) in 19.70 (500) Max.
Top Clearance (Piston to Head)	0.0236-0.0276 (0,60-0,70)
Compression	512-583 PSI (35-40 bar) @ 290 RPM
Allowable Limit	370 PSI (26 bar) @ 290 RPM
Allowable Difference Between Cylinders	10% or less

Valves

Valve Seat Width (Intake & Exhaust)	0.0835 (2,12)
O.D. of Valve Stems	0.3134-0.3140 (7,96-7,98)
I.D. of Valve Guides	0.3156-0.3161 (8,015-8,03)
Clearance Between Valve Stem & Guide	0.0016-0.0028 (0,04-0,07)
Allowable Limit	0.0039 (0,1)
Valve Clearance (Cold)	0.007-0.0087 (0,18-0,22)
Valve Recessing (Protrusion)	0.002 (0,05)
(Recess)	0.006 (0,15)
Allowable Limit (Recess)	0.0157 (0,4)
Valve Seat Angle (Int.)	60 degrees
Valve Seat Angle (Exh.)	45 degrees

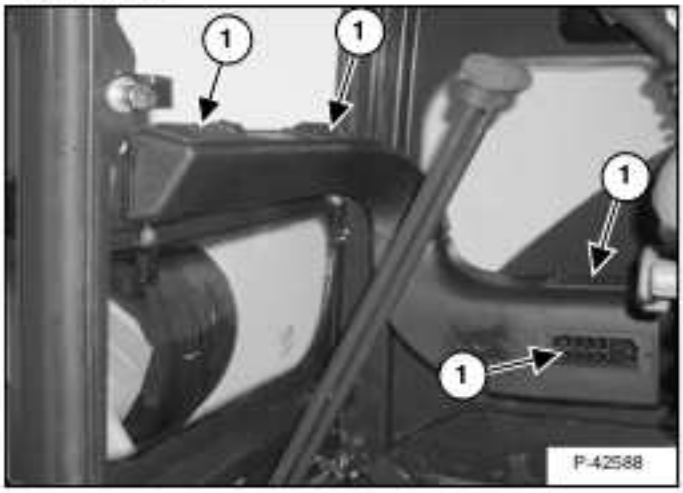
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BASIC TROUBLESHOOTING (LATER MODELS)

Poor A/C Performance

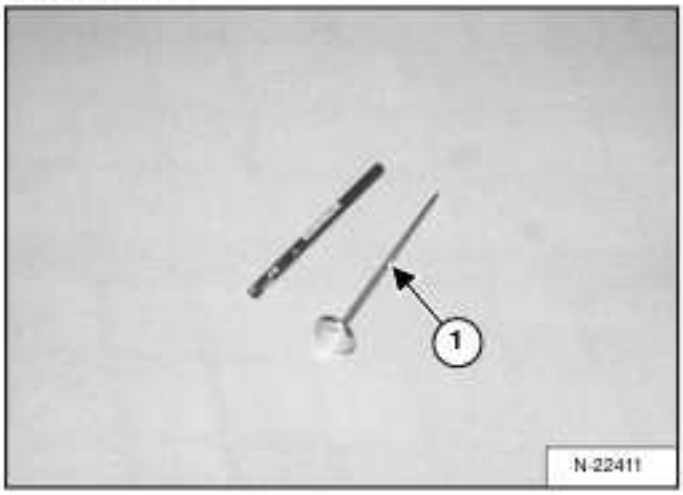
Start the excavator. Engage the A/C system with the blower fan on high. Run the excavator at full RPM for approximately 15 minutes, with the cab door closed.

Figure 70-81-1



Close the louvers at the front window duct and on the top of the lower duct (Item 1) **[Figure 70-81-1]**.

Figure 70-81-2



Check the temperature at the louvers (Item 1) **[Figure 70-81-2]** with a thermometer.

The louver temperature should be between 36-53° F. (2,2-11,6°C) depending on the amount of humidity in the air.

If louver temperature is too high. (See SYSTEM TROUBLESHOOTING CHART on Page 70-100-1.)

Check the blower fan for proper operation or noise, and replace if necessary. (See Removal And Installation on Page 70-20-1.)

Check the accessory drive belt tension. (See Belt Adjustment on Page 10-140-1.)

Check the A/C evaporator coil for dirt or mud, and clean if necessary. (See Removing And Replacing Coolant on Page -2.)

Inspect the sight glass located on the receiver/drier for air bubbles. (See Receiver/Drier Removal And Installation on Page 70-160-1.)

Check the engine coolant to see if it is bypassing the heater valve. (See Removal And Installation on Page 70-30-1.)

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WIRING SCHEMATIC

335 (S/N A16U11001 AND ABOVE)

(PRINTED JULY 2007)
V-0845

CONTROL MODULE
CONNECTORS J1-J6

RIGHT HAND CONSOLE
HARNESS 6810761

LH CONSOLE
HARNESS
7102874

ENGINE HARNESS
7125860

V-0845 (6-27-07)

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