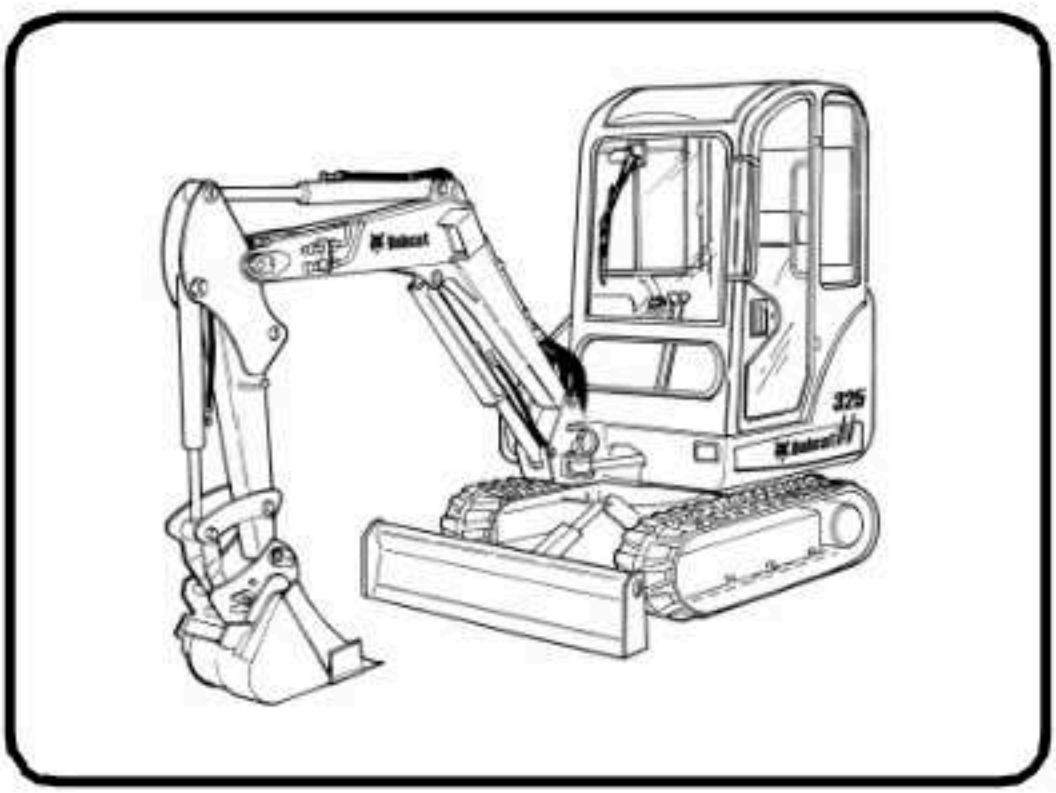
Bobcat®

Service Manual

325, 328 Compact Excavator

325 S/N AAC511001 & Above
325 S/N A9K011001 & Above
328 S/N A9K111001 & Above



6986940 (2-08)

Printed in U.S.A.

© Bobcat Company 2008

MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940...

Order the manual at mid-west-tech.com >

ALPHABETICAL INDEX

AIR CLEANER 10-01, 60-01
AIR CLEANER SERVICE 10-01
ALTERNATOR 50-01
ARM 40-01
ARM CYLINDER 20-01

BATTERY 50-01
BLADE 30-01
BLADE CONTROL 40-01
BLADE CYLINDER 20-01
BOOM 40-01
BOOM CYLINDER 20-01
BOOM SWING CYLINDER 20-01
BUCKET 40-01
BUCKET CYLINDER 20-01
BUILD UP VALVE 20-01

CAB 40-01
CASE DRAIN FILTER 20-01
CLAMP CYLINDER 20-01
CONVERSIONS SPEC-01
CONTROL PATTERN SELECTOR VALVE 20-01
COOLING SYSTEM 10-01
CROSS PORT RELIEF VALVES 20-01

DELUXE INSTRUMENT PANEL SETUP 50-01
DIAGNOSTICS SERVICE CODE 50-01
DIRECT TO TANK VALVE 20-01

ELECTRICAL SYSTEM INFORMATION 50-01
ENGINE 60-01
ENGINE ACCESSORY DRIVE BELT 10-01
ENGINE COMPONENTS AND TESTING 60-01
ENGINE FLYWHEEL 60-01
ENGINE LUBRICATION SYSTEM 10-01
ENGINE SPECIFICATIONS SPEC-01
ENGINE SPEED CONTROL 40-01

FLOOR MAT AND FLOOR PLATE 40-01
FUEL, COOLANT AND LUBRICANTS SPEC-01
FUEL LEVEL SENDER 50-01
FUEL SYSTEM 10-01
FUEL TANK 40-01

HEATER AIR FILTER (WITH CAB OPTION ONLY) 10-01
HEATER COIL 70-01
HEATER FAN 70-01
HEATER UNIT 70-01
HEATER VALVE 70-01
HORN 40-01
HYDRAULIC CONTROL VALVE 20-01
HYDRAULIC CONNECTION SPECS SPEC-01
HYDRAULIC FLUID SPECIFICATIONS SPEC-01
HYDRAULIC FILTER MOUNT 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

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
LUBRICATION OF THE HYDRAULIC EXCAVATOR 10-01

MAIN RELIEF VALVES 20-01
MANIFOLD ASSEMBLY/ACCUMULATOR 20-01
MUFFLER 60-01

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

PORT RELIEF VALVES 20-01
PRESSURE REDUCING VALVE 20-01

RADIATOR 60-01
RECONDITIONING THE ENGINE 60-01
RIGHT CONTROL LEVER (JOYSTICK) 20-01
RIGHT CONSOLE 40-01
RIGHT PEDAL AND LINKAGE 40-01
RIGHT SIDE COVER 10-01, 40-01
ROPS CANOPY 40-01

Continued On Next Page

MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940... Order the manual at mid-west-tech.com >

SEAT BELT 10-01
SERVICE SCHEDULE 10-01
SPARK ARRESTOR MUFFLER 10-01
SPECIFICATIONS SPEC-01
SUSPENSION SEAT AND SEAT MOUNT 40-01
STARTER 50-01
STANDARD SEAT AND SEAT MOUNT 40-01
SWING CIRCLE GEAR 30-01
SWING FRAME 40-01
SWING MOTOR 20-01
SWING MOTOR DRIVE CARRIER 20-01
SWIVEL JOINT 20-01

TAILGATE 10-01, 40-01
TORQUE SPECIFICATIONS SPEC-01
TRACK DAMAGE IDENTIFICATION 30-01
TRACK FRAME 30-01
TRACK IDLER 30-01
TRACK ROLLER 30-01
TRACKS 30-01
TRANSPORTING THE EXCAVATOR 10-01
TRAVEL CONTROLS 40-01
TRAVEL MOTOR 10-01, 20-01
TROUBLESHOOTING 60-01
TWO SPEED SWITCH 50-01

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

X-CHANGE ® 40-01

MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD III

SAFETY INSTRUCTIONS V

FIRE PREVENTION VII

SERIAL NUMBER LOCATIONS IX

DELIVERY REPORT X

BOBCAT 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

HEATER 70-01

SPECIFICATIONS SPEC-01

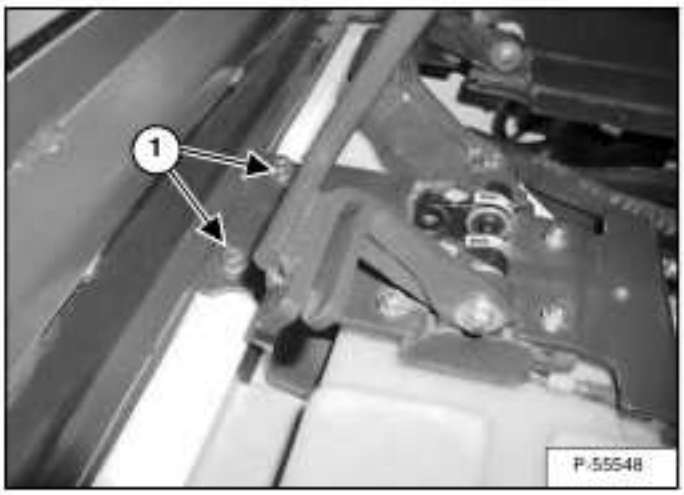
MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940... Order the manual at mid-west-tech.com >

TRAVEL CONTROLS

Removal And Installation

Remove the floor mat and floor plate. (See Removal And Installation (Canopy Equipped Excavators) on Page 40-110-1 or See Removal And Installation (Cab Equipped Excavators) on Page 40-110-2.)

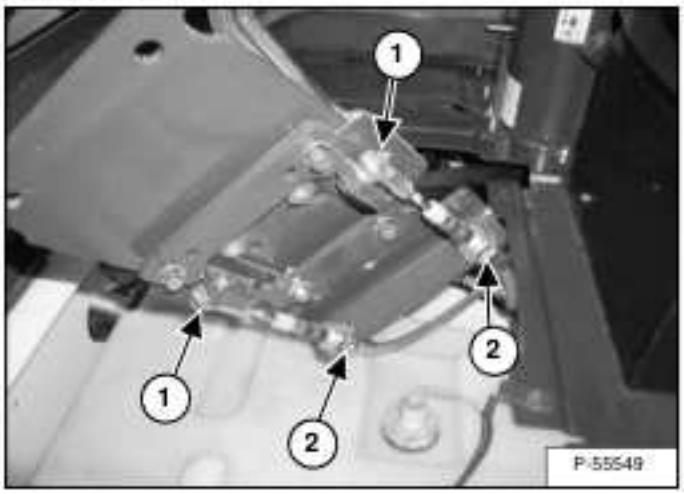
Figure 40-100-1



Remove the bolts and nuts (Item 1) **[Figure 40-100-1]** from the front floor panel.

Turn the travel lever mount over.

Figure 40-100-2



Mark and remove the cables (Item 1) **[Figure 40-100-2]** from the travel levers.

Loosen the nuts (Item 2) **[Figure 40-100-2]** and remove the cables from the travel lever mount.

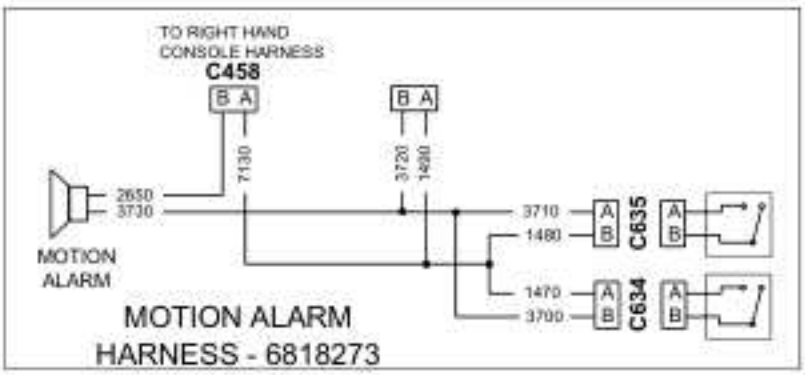
Remove the travel lever mount from the excavator.

MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940... Order the manual at mid-west-tech.com >

WIRING SCHEMATIC
325 (S/N AAC5111001 AND ABOVE)
(S/N A9K0111001 AND ABOVE)
328 (S/N A9K111001 AND ABOVE)

(PRINTED FEBRUARY 2008)

V-0980



MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940... Order the manual at mid-west-tech.com >

Hydraulic System

Pump - Hydraulic	Engine driven, dual outlet variable displacement piston/gear pump
Pump Capacity Gear Pump (One) Piston Pump (Two)	 7.03 GPM (26,6 L/min) 5.23 GPM (19,8 L/min)
Auxiliary Flow	12.3 GPM (46,6 L/mm)
Control Valve	10 spool open center parallel/series
Drive Motor (Two)	Axial piston
Slew Motor	Orbit motor
System Relief Pressure Boom, Boom Swing Bucket, Arm, Auxiliary Blade	 2500 PSI (172 bar) 2500 PSI (172 bar) 3820 PSI (263 bar)
Slew Relief Pressure	1700 PSI (117 bar)
Joystick Pressure	428 PSI (30 bar)
Arm Port Relief Base And Rod End	2900 PSI (200 bar)
Boom Port Relief Base End And Rod End	 3335 PSI (230 bar)
Bucket Port Relief Base End Rod End	2900 PSI (200 bar) 3335 PSI (230 bar)
Main Hydraulic Filter Bypass	50 PSI (3,5 bar)
Case Drain Filter Bypass	20 PSI (1,4 bar)

Hydraulic Cylinders

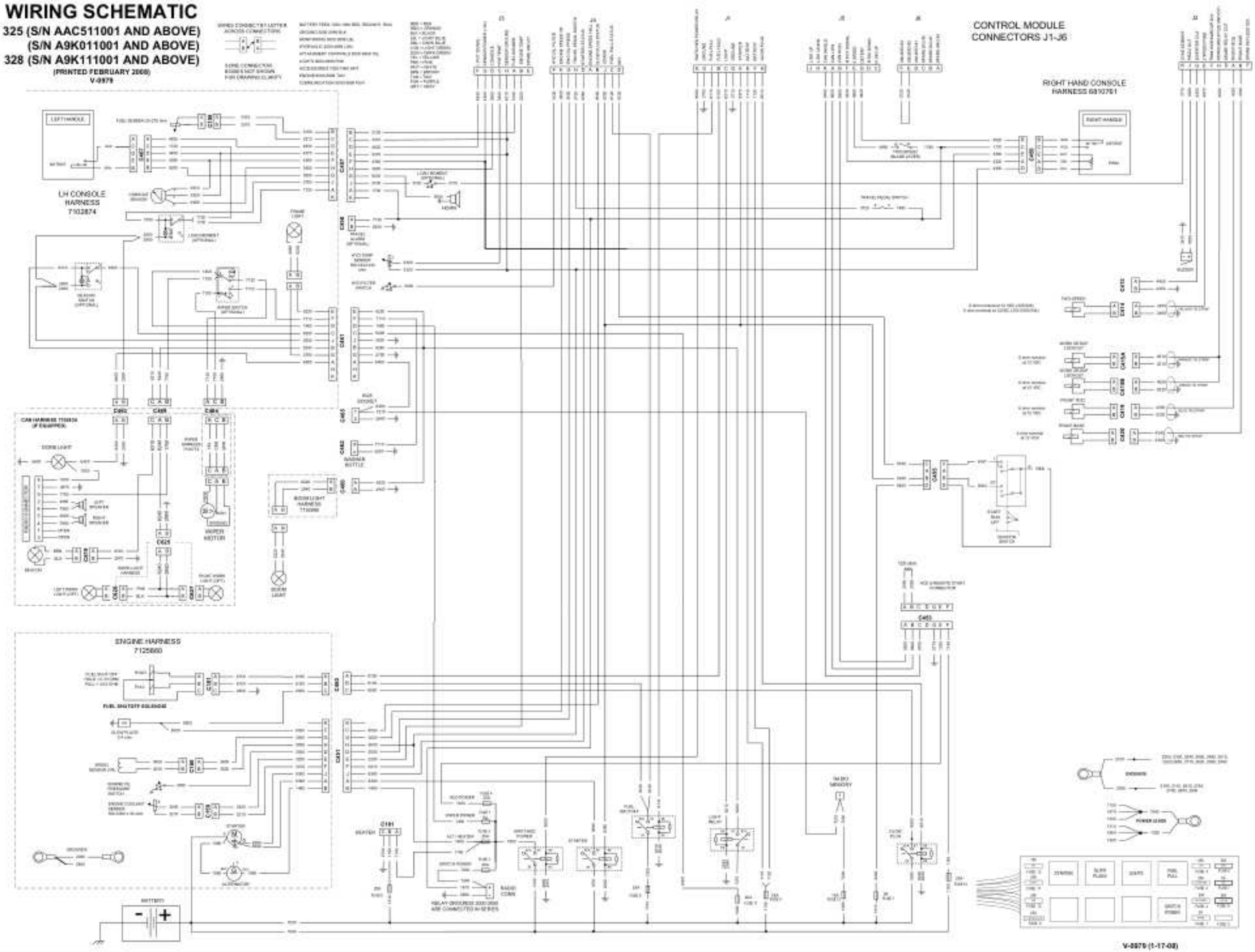
Cylinder	Bore	Rod	Stroke
Boom (Cushion Up)	3.00 in. (76,2 mm)	1.62 in. (41,3 mm)	18.68 in. (423,7 mm)
Arm (Cushion Retract)	3.00 in. (76,2 mm)	1.5 in. (38,1 mm)	19.11 in. (485,4 mm)
Bucket	2.5 in. (63,5 mm)	1.5 in. (38,1 mm)	18.34 in. (465,8 mm)
Boom Swing (Cushion Left/Right)	2.38 in. (60,3 mm)	1.38 in. (34,9 mm)	15.75 in. (400 mm)
Blade	2.75 in. (69,9 mm)	1.50 in. (38,1 mm)	7.68 in. (195 mm)

MidWestTech | Bobcat 325, 328 Compact Excavator Service Manual | Publication 6986940... Order the manual at mid-west-tech.com >

WIRING SCHEMATIC

325 (S/N AAC511001 AND ABOVE)
(S/N A9K011001 AND ABOVE)
328 (S/N A9K111001 AND ABOVE)

(PRINTED FEBRUARY 2008)
V-0979



Order the manual at mid-west-tech.com >