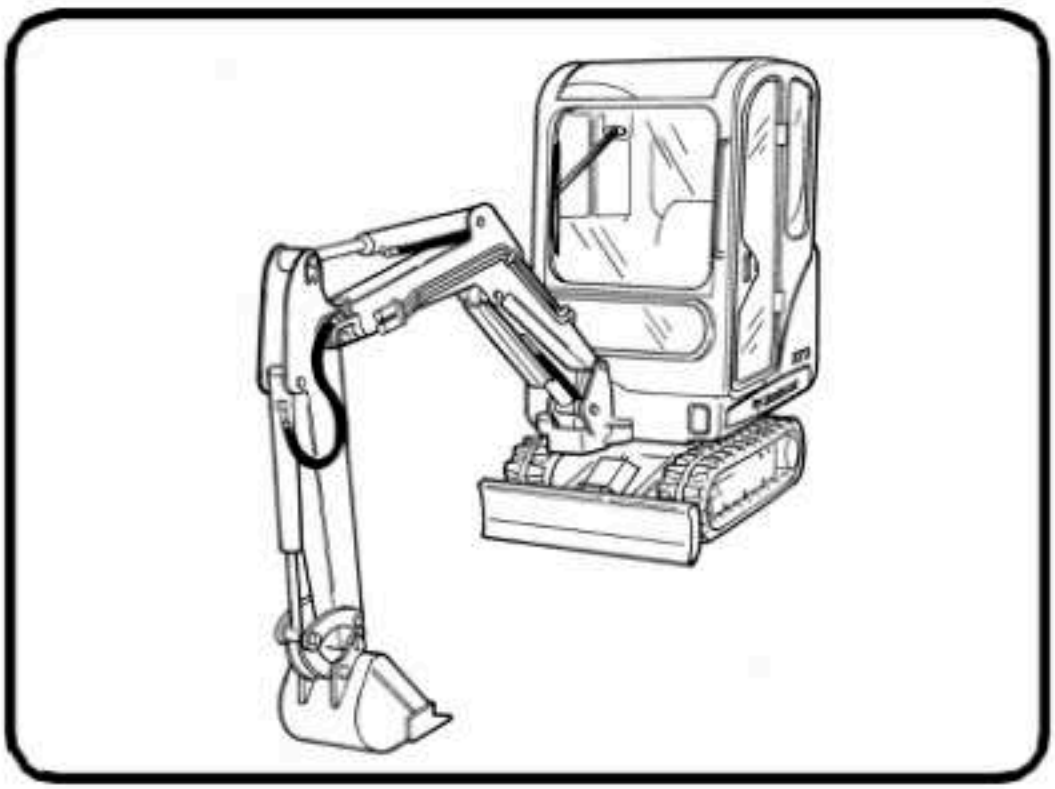
Bobcat®

Service Manual
323 Excavator

S/N 562411001 Above



6903380 (6-11)

Printed in U.S.A.

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Troubleshooting The Cylinder Circuit

TROUBLESHOOTING THE CYLINDER CIRCUIT		
PROBLEM	**CAUSE**	**CORRECTION**
Cylinder inoperable.	Control console(s) raised.	Lower control console.
	Loose fittings or broken hoses.	Repair or replace.
	Lever linkage misadjusted.	Readjust.
	Control console lockout switch.	Readjust or replace.
	Cylinder internal leakage excessive.	Repair or replace.
	Control lever (joystick) manifold solenoid coil defective.	Test, repair or replace.
	Control lever (joystick) manifold solenoid valve defective.	Test, repair or replace.
	Control lever (joystick) manifold pressure reducing valve defective.	Test, repair or replace.
	Control lever (joystick) internal leakage excessive.	Repair or replace.
Cylinder force insufficient.	Main relief valve pressure too low.	Readjust or replace.
	Work port relief pressure too low.	Readjust or replace.
Cylinder speed too slow.	Lever linkage misadjusted.	Readjust.
	Cylinder internal leakage excessive.	Repair or replace.
	Control lever (joystick) manifold solenoid valve defective.	Repair or replace.
	Control lever (joystick) manifold pressure reducing valve defective.	Repair or replace.
	Control valve internal leakage excessive.	Repair or replace.
	Control lever (joystick) internal leakage excessive.	Repair or replace.
Cylinder drift excessive.	Cylinder internal leakage excessive.	Repair or replace.
	Work port relief valve seals leaking.	Test, repair or replace.
	Control valve internal leakage excessive.	Repair or replace.

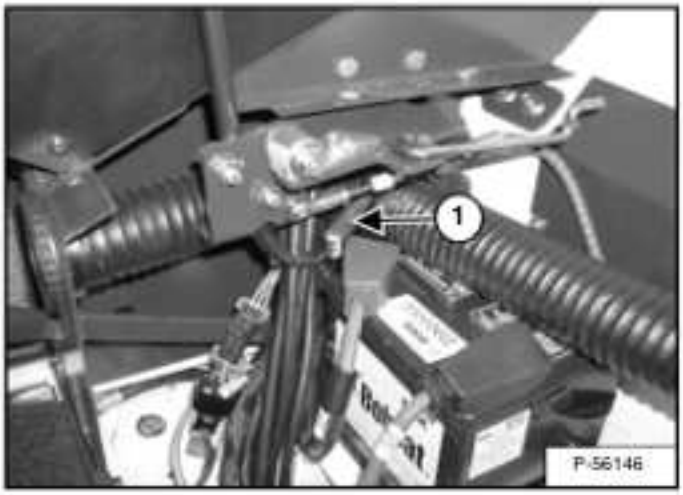
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BLADE CONTROL

Removal And Installation

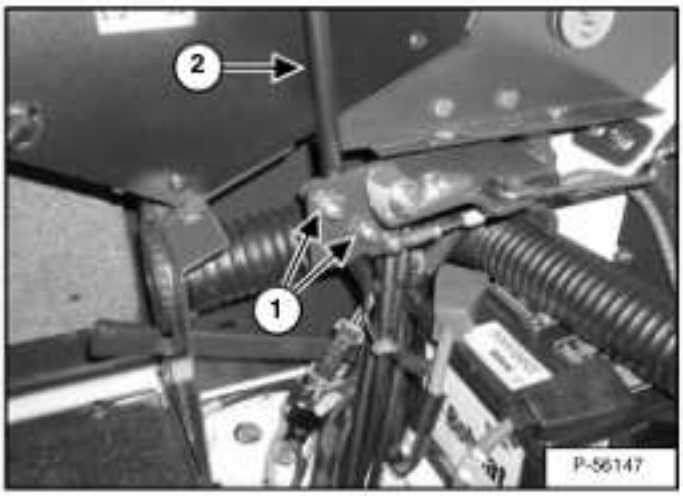
Remove the seat and seat mount. (See Removal And Installation on Page 40-40-1.)

Figure 40-80-1



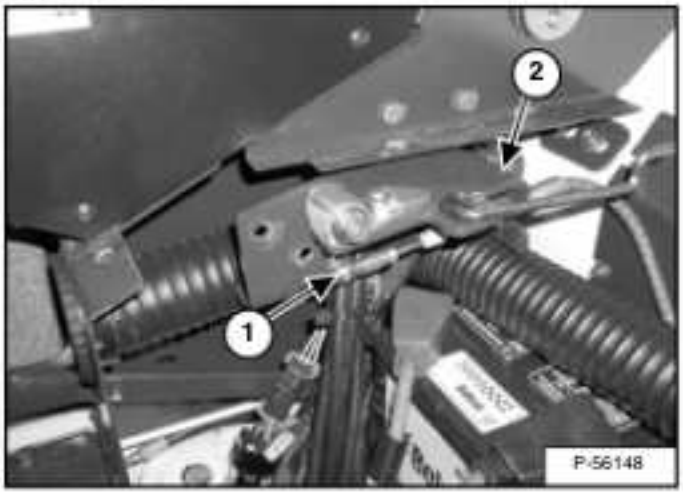
Disconnect the two-speed wire harness (Item 1) **[Figure 40-80-1]**. (If Equipped)

Figure 40-80-2



Remove the bolts and clamps (Item 1). Remove the blade / track expansion lever (Item 2) **[Figure 40-80-2]**.

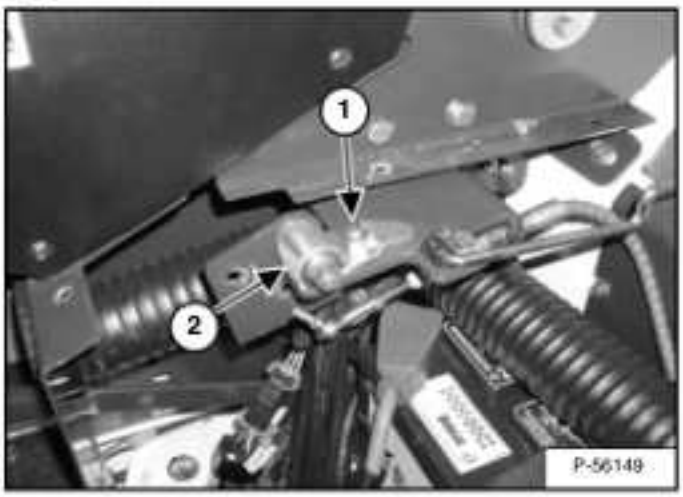
Figure 40-80-3



Remove the nut holding the ball joint of the blade / track expansion cable (Item 1) **[Figure 40-80-3]**.

Loosen the nut (Item 2) **[Figure 40-80-3]** and slide the cable assembly out of the bracket.

Figure 40-80-4



Remove the nut and bolt (Item 1) **[Figure 40-80-4]**.

Remove the bellcrank and pivot mount (Item 2) **[Figure 40-80-4]**.

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Hydraulic System

Pump - Hydraulic	Engine driven, dual outlet piston pump with gear pump
Pump Capacity Piston Pump (2) Gear Pump (1)	 15,0 L/min (3.96 U.S. gpm) 13,0 L/min (3.43 U.S. gpm)
Auxiliary Flow	30 L/min (7.9 U.S. gpm)
Control Valve	9 spool open center parallel type
Drive Motor (Two)	Two Axial Piston
Slew Motor	Orbit Motor
System Relief Pressure	18616 kPa (186 bar) (2700 psi)
Slew Relief Pressure	12066 - 12411 kPa (121 - 124 bar) (1750 - 1800 psi)
Joystick Pressure	2999 kPa (30 bar) (435 psi)
Arm Port Relief Base End Rod End	 19995 kPa (200 bar) (2900 psi) 22994 kPa (230 bar) (3335 psi)
Boom Port Relief Base End Rod End	 22994 kPa (230 bar) (3335 psi) 22994 kPa (230 bar) (3335 psi)
Bucket Port Relief Base End Rod End	 19995 kPa (200 bar) (2900 psi) 22994 kPa (230 bar) (3335 psi)
Main Hydraulic Filter Bypass	172 kPa (1,7 bar) (25 psi)

Hydraulic Cylinders

Cylinder	Bore	Rod	Stroke
Boom	60 mm (2.38 in)	35 mm (1.38 in)	345 mm (13.59 in)
Arm	60 mm (2.38 in)	38 mm (1.50 in)	421 mm (16.57 in)
Bucket	57 mm (2.25 in)	38 mm (1.50 in)	385 mm (15.16 in)
Boom Swing	83 mm (3.25 in)	32 mm (1.25 in)	374 mm (14.71 in)
Blade	60 mm (2.38 in)	35 mm (1.38 in)	132 mm (5.20 in)
Undercarriage	51 mm (2.00 in)	25 mm (1.00 in)	380 mm (14.96 in)

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WIRING SCHEMATIC

323 (S/N 562411001 AND ABOVE)
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