463

Bobcat®

Service Manual

S/N 522211001 & Above
S/N 522111001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

6901812 (3-06)

Ingersoll Rand
Compact Vehicle Technologies
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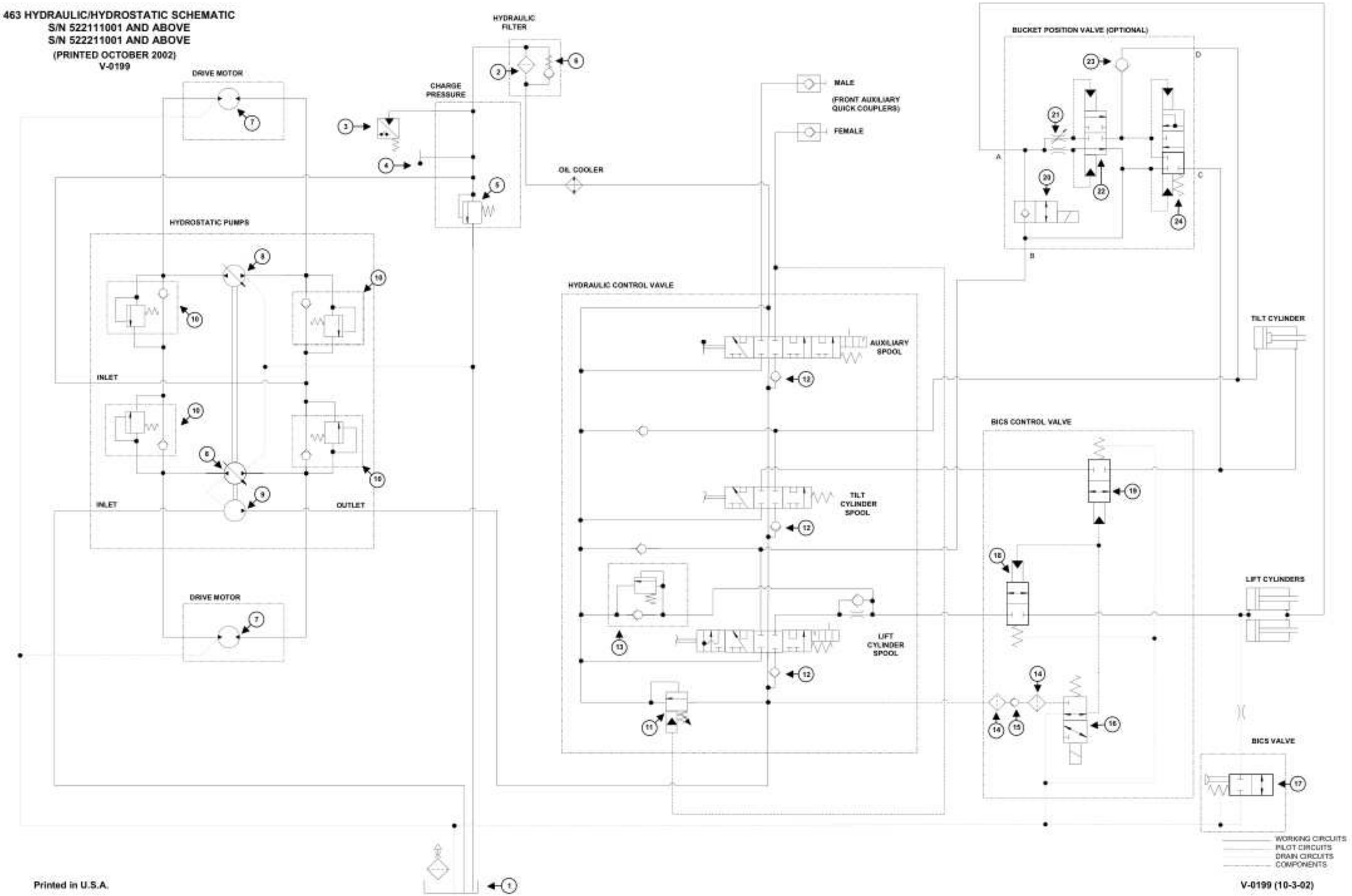
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463 HYDRAULIC/HYDROSTATIC SCHEMATIC
S/N 522111001 AND ABOVE
S/N 522211001 AND ABOVE
(PRINTED OCTOBER 2002)
V-0199



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BICS™ SYSTEM CONTROLLER

Troubleshooting Guide

The following troubleshooting guide os provided for aassistance in locating and correcting BICS system problems. It is recommended that these procedures be done by authorized Bobcat Service Personnel only.

⚠ WARNING

Check for correct function after adjustments, repairs or service. Failure to make correct repairs or adjustments can cause injury or death.

W-2004-1285

PROBLEM	SOLUTION #
Power indicator light does not come ON.	1, 2, 3, 6
All indicator lights flashing.	4
One of the indicator lights flashing.	5
Intermittent idicator lights.	6, 7, 8, 9
Key ON, Seat bar down, push the Press to Operate Button. The System Activated, Valve And Traction indicator lights do not come ON.	10

SOLUTION SUGGESTIONS

1. Check that ignition switch ON.
2. Check BICS 10 amp. fuse.
3. Check wiring and connections. Make sure the connector is securely connected to the controller. Pull on connector to check.
4. Look at indicator light windows, if they are milky white in appearance it is most likely caused by moisture in the controller. Allow to dry or replace the controller.
5. Refer to BICS controller troubleshooting chart. (See Troubleshooting Chart on Page 60-80-2.)
6. Check wire connections to make sure connectors are locked into place.
7. Check pins in connectors for pins pushed back or bent.
8. Move the system wiring back & forth to try to find area that may be causing the intermittent connection.
9. Use sensor tester MEL 1428 to isolate problem between sensor and controller and wiring.
10. Check the wiring connections. Remove the left instrument panel and check the Push to Operate Button with an Ohmmeter at the two pin connector.

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Specifications (Cont'd)

Drive System

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Main Drive	Hydrostatic 4 wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
Final Drive	#60HS endless roller chain & sprockets in sealed chaincase with oil lubrication
Total Engine to Wheel Reduction	31.25:1
Axle Size	1.5 (38,1)
Wheel Bolts	(5) 7/16"

Capacities

Cooling System	6.0 qts. (5,7 L)
Fuel	6.5 gals. (24,6 L)
Engine Oil W/Filter	5.0 qts. (4,7 L)
Hydraulic/Hydrostatic Reservoir	5.3 qts. (5,0 L)
Hydraulic/Hydrostatic System	4.0 gals. (15,1 L)
Chaincase Reservoir	3.0 gals. (11,4 L)

Tires

Standard	23 x 5.7-12, 4 ply rating
Flotation	23 x 8.5-12, 6 ply rating
Turf	23 x 8.5-12, 8 ply rating
Recommended Pressure	Inflate tires to MAXIMUM pressure shown on the side wall of the tire. DO NOT mix brands of tires used on the same loader

Floor Pressure

	Front	Rear	Front	Rear
Std. Tires - Rated Load	68 PSI (469 kPa)	61 PSI (420 kPa)	68 PSI (469 kPa)	64 PSI (441 kPa)
Unloaded	49 PSI (338 kPa)	67 PSI (462 kPa)	49 PSI (338 kPa)	69 PSI (476 kPa)
Flot. Tires - Rated Load	25 PSI (172 kPa)	21 PSI (145 kPa)	25 PSI (172 kPa)	23 PSI (159 kPa)
Unloaded	14 PSI (97 kPa)	25 PSI (172 kPa)	14 PSI (97 kPa)	27 PSI (186 kPa)

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