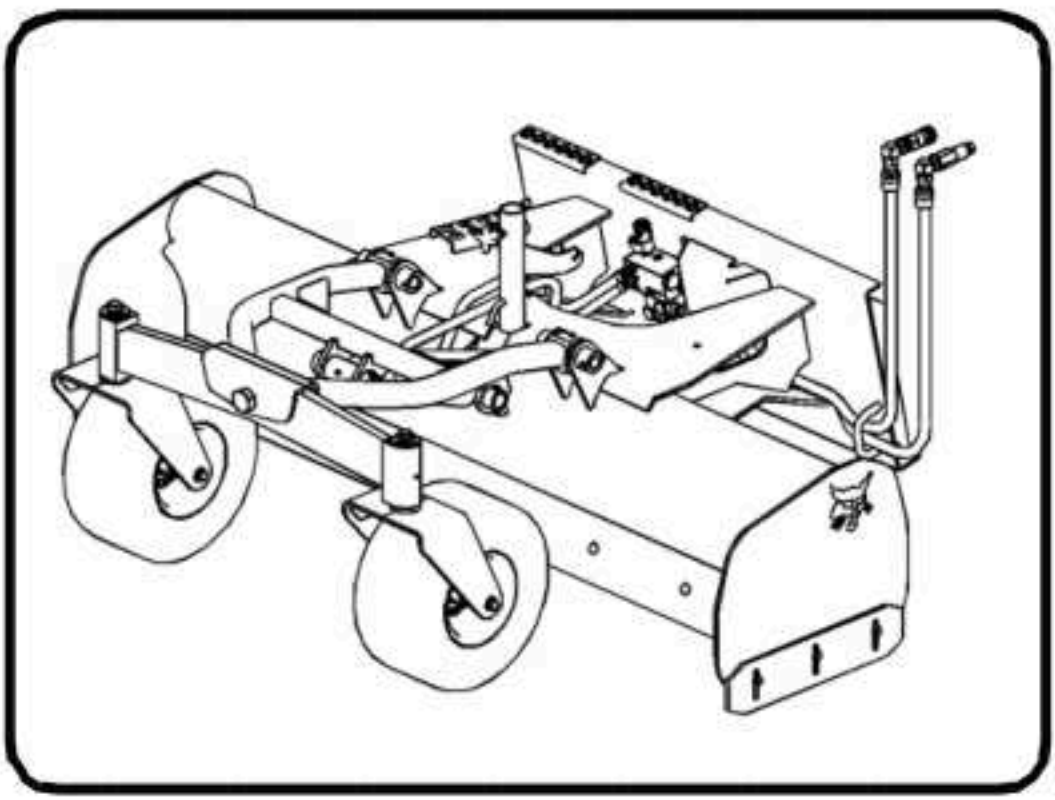
Bobcat®

Service Manual
Box Blade

Box Blade S/N 657400101 & Above
Box Blade Laser S/N 657500101 & Above



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CONTENTS

SAFETY & MAINTENANCE 10-01

HYDRAULIC SYSTEM 20-01

MAINFRAME 30-01

SPECIFICATIONS SPEC-01

ALPHABETICAL INDEX INDEX-01

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TROUBLESHOOTING

Box Blade Chart

TROUBLESHOOTING THE BOX BLADE		
PROBLEM	**CAUSE**	**CORRECTION**
Box Blade does not seat properly on the Bob-Tach.	Bob-Tach pins are not fully retracted prior to installation.	Retract Bob-Tach pins before installation.
	Mud, dirt or stones are lodged between the Bob-Tach and the box blade.	Dislodge object from between Bob-Tach and box blade.
Bolster cylinder does not raise or lower.	No hydraulic flow.	Activate loader front auxiliary hydraulics.
		Check quick couplers connection. Check for damaged hose ends and fittings.
Laser graded surface is uneven.	Excessive ground speed.	Drive slower.
	Tilt stops not set.	Set tilt stops.
	Laser pole not vertical.	Adjust laser pole and set tilt stops.
	Receiver correction speed set too slow for ground speed.	Drive slower or increase correction speed.
Trimble Support Machine Control - Construction Instructions Americas: 1 - 800 - 538 - 7800 (Option 3 For Support) Outside Of Americas: 1 - 303 - 323 - 4111 E-Mail: Trimble_Support@Trimble.com		

GCR Receiver Chart

TROUBLESHOOTING THE GCR RECEIVER		
PROBLEM	**CAUSE**	**CORRECTION**
Unit will not turn on.	No power to the unit.	Make sure the system's Power Cable is connected to the machine's battery.
	Not enough power to the unit.	Make sure the machine has enough power (9 to 30 V DC required).
	Receiver cable loose.	Make sure the Grade Control Receiver cable is secure at both ends.
	Bad fuse.	Check the fuse.
	Receiver cable is bad.	If you have a spare, try a different Grade Control Receiver cable.
NOTE: For other problems related to the laser products, see Trimble Operation Manual or contact your Bobcat Dealer.		
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Laser Beacon

See your Laser Beacon owners manual for specifications.

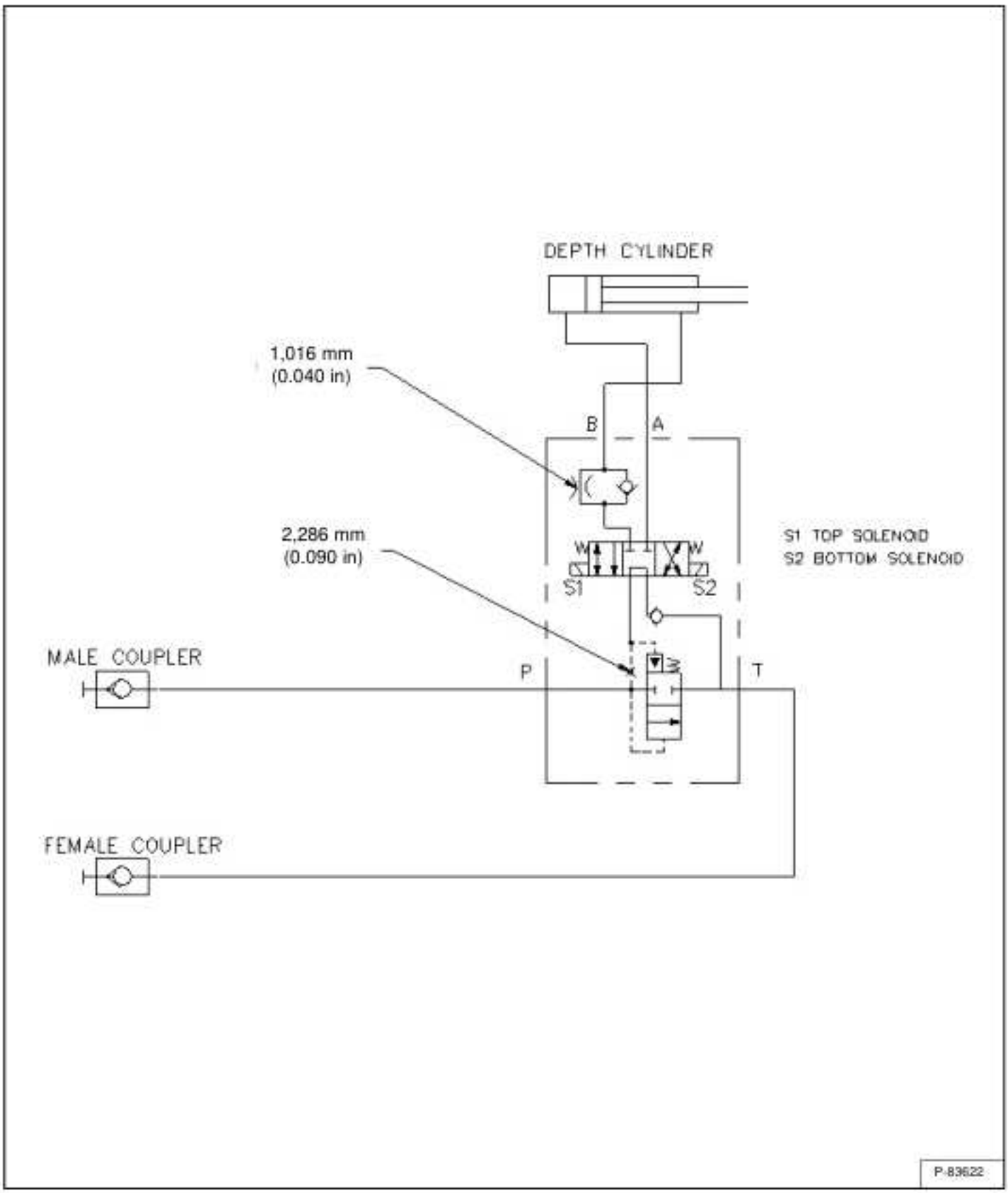
Laser Detector

Capture Height	48 mm (1 7/8 in)
Acceptance Angle	±45°
LCD Readout	Front and back
On Grade Sensitivity	Ultra-Fine: 0.0 mm (0.0 in) Fine: 2 mm (1/16 in) Medium: 4 mm (1/8 in) Coarse: 6,4 mm (1/4 in)
Power Source	Two 1.5-V batteries (type LR6/AA)
Battery Life @ 68° F (20°C)	Alkaline: >74 hour Ni-Cd: >48 hour
Battery Indicator	LCD battery symbol
Automatic Shutoff	30 minutes after last laser detection or push button actuation
Spectral Sensitivity	Operates with red visible and infrared lasers rotating between 300 and 600 rpm
Marking Notch	50 mm (2 in) below top of receiver
Volume Control	High/Low/Off
LCD Backlighting	Two-button actuation
Operating Temperature	-20 - + 50°C (-4 - +122°F)
Storage Temperature	-40 - +70°C (-40 - +158°F)
Weight	0,27 kg (9 1/2 oz.)
Dimensions (T x W x L)	2,6 x 7,4 x 16,3 cm (1 x 2 7/8 x 6 3/8 in)

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HYDRAULIC SCHEMATIC

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