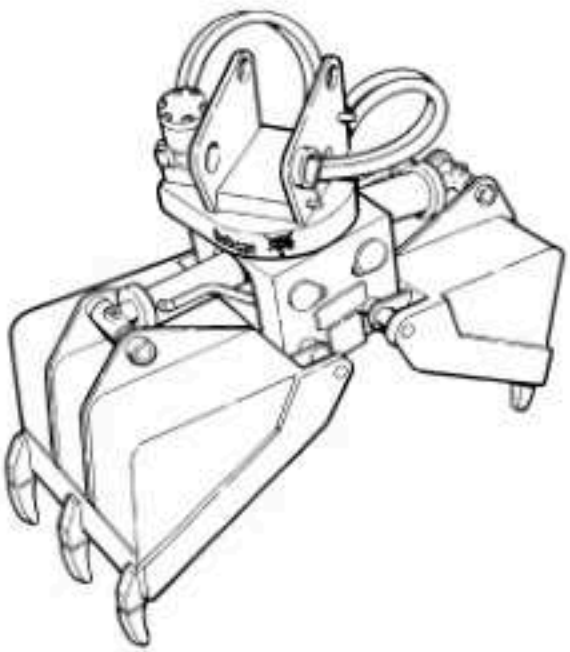
Rotating Grapple

Bobcat®

Service Manual

(Model 30) - S/N 775400101 & Above
(Model 30) - S/N 775700101 & Above
(Model 40) - S/N 775300101 & Above
(Model 40) - S/N 775600101 & Above



Ingersoll Rand
Compact Vehicle Technologies

6902024 (2-06)

Printed in U.S.A.

©Bobcat Company 2006

MidWestTech | Bobcat Model 30, 40 Rotating Grapple Attachment Service Manual | Public... Order the manual at mid-west-tech.com >

CONTENTS

ATTACHMENT DELIVERY REPORT IV

SERIAL NUMBER LOCATION III

IDENTIFICATION IV

SAFETY AND MAINTENANCE. 10-01

HYDRAULIC SECTION. 20-01

MAIN FRAME 30-01

SPECIFICATIONS SPEC-01

CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

MidWestTech | Bobcat Model 30, 40 Rotating Grapple Attachment Service Manual | Public... Order the manual at mid-west-tech.com >

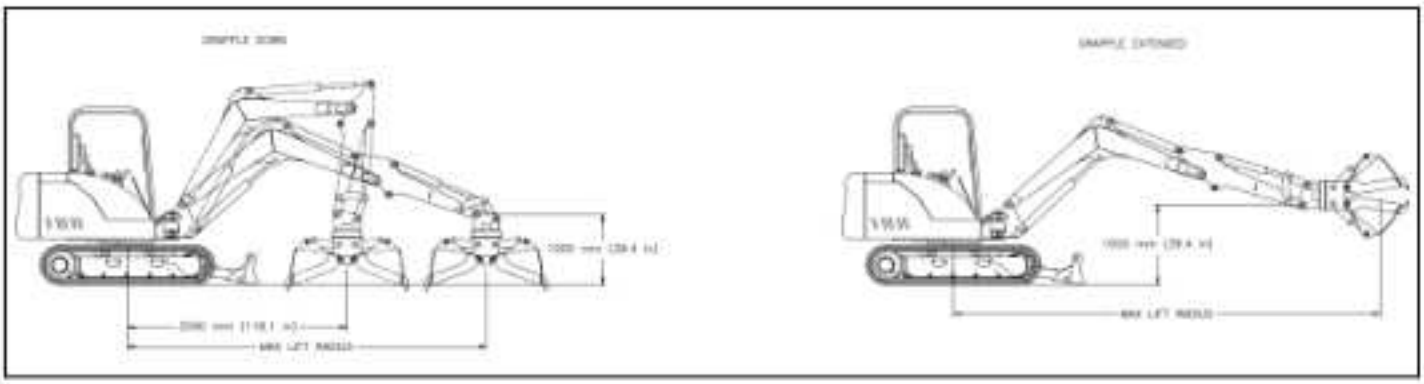
TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Grapple will not rotate.	Secondary auxiliary switch not activated.	Push switch to the right.
		Check fuses.
	Offset load is to heavy.	Lighten load or reposition load.
	Motor shaft broken.	Replace motor. Check relief valves for correct setting.
	Broken gear teeth.	Replace pinion or main gear.
	Control valve malfunction.	Check plumbing.
		Check for contamination.
		Check solenoid.
	Plugged or broken orifice.	Replace orifice fitting at quick coupler.
Grapple will not clamp.	Secondary auxiliary switch not activated.	Push switch to the right.
	Malfunctioning swivel.	Reseal swivel.
	Debris lodged in grapple.	Clear debris.

MidWestTech | Bobcat Model 30, 40 Rotating Grapple Attachment Service Manual | Public...

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

Rotating Grapple Load Chart



ROTATING GRAPPLE LOAD CHART

	RATED LIFT CAPACITY OVER BLADE, BLADE DOWN kg (lb.)			RATED LIFT CAPACITY OVER BLADE, BLADE UP kg (lb.)			RATED LIFT CAPACITY OVER SIDE, BLADE UP kg (lb.)		
MODEL	GRAPPLE DOWN 3000 MM (118.1) LIFT RADIUS	GRAPPLE DOWN MAXIMUM LIFT RADIUS	GRAPPLE EXTENDED MAXIMUM LIFT RADIUS	GRAPPLE DOWN 3000 MM (118.1) LIFT RADIUS	GRAPPLE DOWN MAXIMUM LIFT RADIUS	GRAPPLE EXTENDED MAXIMUM LIFT RADIUS	GRAPPLE DOWN 3000 MM (118.1) LIFT RADIUS	GRAPPLE DOWN MAXIMUM LIFT RADIUS	GRAPPLE EXTENDED MAXIMUM LIFT RADIUS
331	609 (1343)*	403 (890)*	282 (623)*	584 (1288)*	188 (415)	132 (291)	391 (861)	137 (303)	96 (212)
331E	496 (1094)*	329 (726)*	230 (508)*	468 (1033)*	177 (391)	124 (274)	359 (791)	126 (277)	88 (194)
334	528 (1164)*	338 (746)*	237 (522)*	507 (1117)*	206 (455)	144 (319)	515 (1136)*	164 (361)	115 (253)
337	2024 (4462)*	1050 (2317)*	736 (1622)*	1017 (2242)	428 (943)	299 (660)	797 (1757)	217 (478)	152 (335)
341	1725 (3803)*	860 (1897)*	602 (1328)*	1232 (2717)	332 (732)	232 (512)	963 (2123)	237 (523)	166 (366)

*RATED HYDRAULIC LIFT CAPACITY.

MidWestTech | Bobcat Model 30, 40 Rotating Grapple Attachment Service Manual | Public... Order the manual at mid-west-tech.com >