

Ship To: IN STORE PICKUP

Invoice To:

Branch		
Date	Time	Page
		01
Account No.	Phone No.	Invoice No.
Ship Via		Purchase Order
		Salesperson

### SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
E009168	JT20 Horizontal Dr	3438	DWPJT20BPK0000226		
	JT20		12353643		

SEGMENT# 1 C CUST NA

NO PULLBACK

COMPLAINT:

Thrust motor has no power on pull back and is making some bad noises.

CORRECTION:

1. Pinon bearings on carriage. Bent brackets/hardlines will make assembly difficult.
2. Multiple broken & loose side plate & bearing housing bolts.
3. Left track rotates when two speed is used or carriage is deadheaded. Got debris out of valve, cleaned and ran again, working as it should.
4. Carriage rollers are mostly bad. Three roller on top of the carriage are tight and two on the bottom are tight.
5. Needs new pinon bearings in the front and the rear bearings are getting sloppy, all should be replaced.

Pulled the carriage completely apart. Washed all pieces and inspected. Both side plates had broken bolts leading to cracks in the side plates. Cut out all the cracks and rewelded side plates. Installed new bearings in both front and rear pinon drives. Installed six new cam rollers. Reassembled the carriage, all the bent brackets and steel hydraulic lines made assembly very difficult. Set and adjusted all cam rollers so the carriage has a little play but still tight. Tested and it rolls up and down the rail nicely. Power washed all the spilt oil off the carriage. Changed rotation gearbox oil. When changing the gearbox oil

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**TERMS AND CONDITIONS**

**TERMS: NET**

This invoice is subject to all of the terms, provisions, conditions and limitations of the parts and sales agreement concerning the goods, services or equipment sold or leased as described therein. Examine the invoice carefully as it will be deemed correct unless errors are reported within 10 days of the date hereof. The purchaser or lessee shall pay a service charge of 1.5% (18% Annual Rate) on all amounts not paid within 30 days following the date of such sale or lease and all costs of collection or enforcement including reasonable attorney's fees.

**RETURNED ITEMS ARE SUBJECT TO A SERVICE AND RESTOCKING CHARGE.**

X

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**ALL CLAIMS AND RETURNED GOODS MUST BE WITHIN 10 DAYS AND MUST BE ACCOMPANIED BY THIS BILL**

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water came out. Flushed the gearbox out with fresh oil.  
tested the rotation and it was making pressure. There was a  
noise coming from the gearbox location. The rotation motor  
and gearbox are bolted together and its very hard to tell  
if the noise is coming from the gearbox or the motor.  
Removed the motor and found some end play in the top  
bearing set. Split the gearbox and found no damage to the  
bearing, or gears. Re-shimmed the bearing sets and tested  
rotation. Rotation is good. This means the drive motor is  
bad. Ordered in and installed a new rotation motor.  
Reassembled gearbox and installed it. Tested and no noise  
coming from it. Pressure is at spec. Found no leaks.

ADDITIONAL DESCRIPTION:

FRT	FREIGHT	1
105-998	METRIC SCREW	4
107-197	SCREW	8
115-456	SNAP RING	4
125-044	BEARING	8
125-1145	CAM FOLLOWER (1	6
150-1027	ROTATION MOTOR	1 N
155-869	SEAL	2
177-034	SPACER	1

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\*\*\*\*\* WORK ORDER TOTALS \*\*\*\*\*  
CONTINUED ON PAGE 03

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