

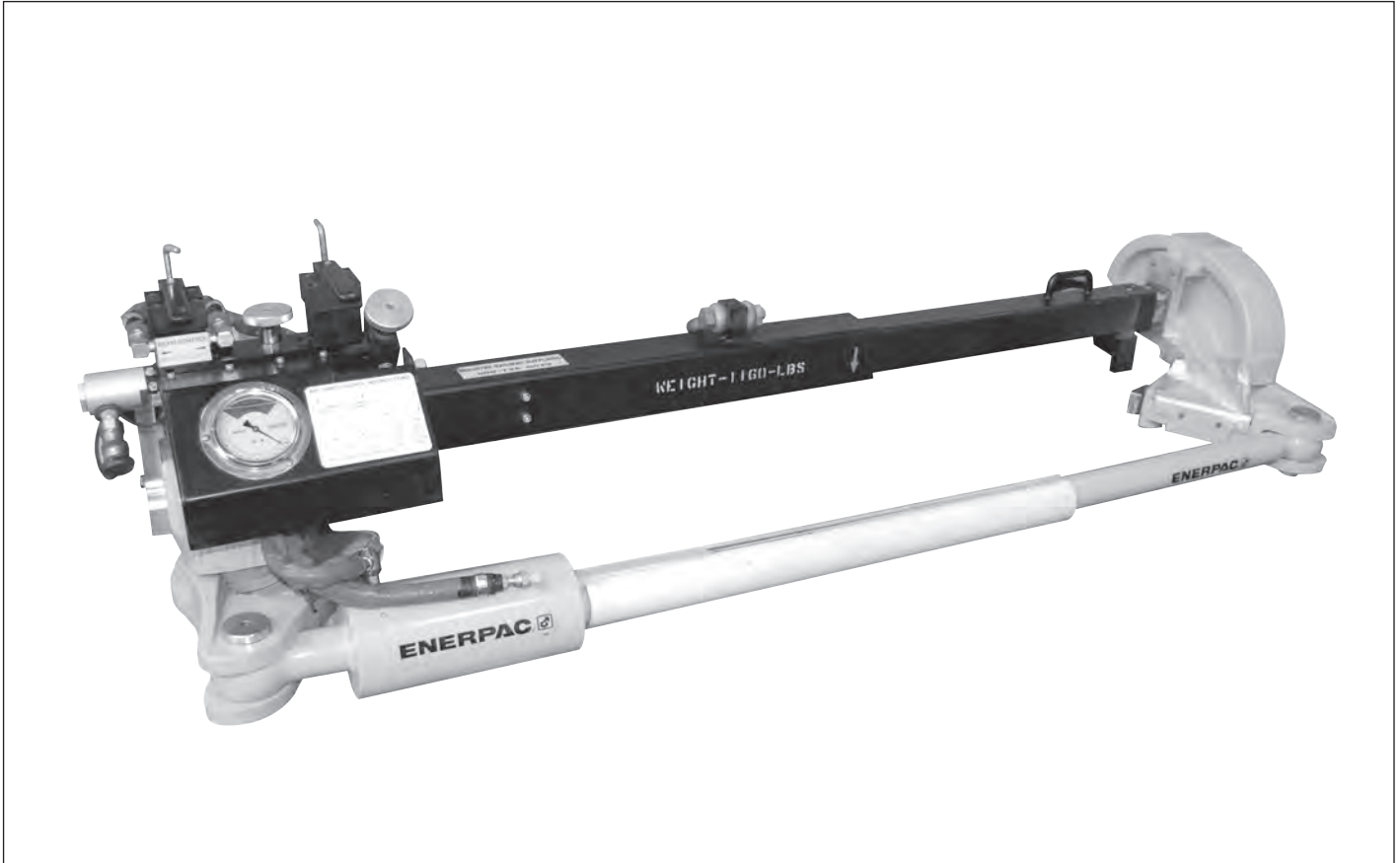


POWERFUL SOLUTIONS. GLOBAL FORCE.

Instruction Sheet

Hydraulic Rail Puller
Model RP120BP

TD013 Rev. B 03/14



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1.0 SAFETY

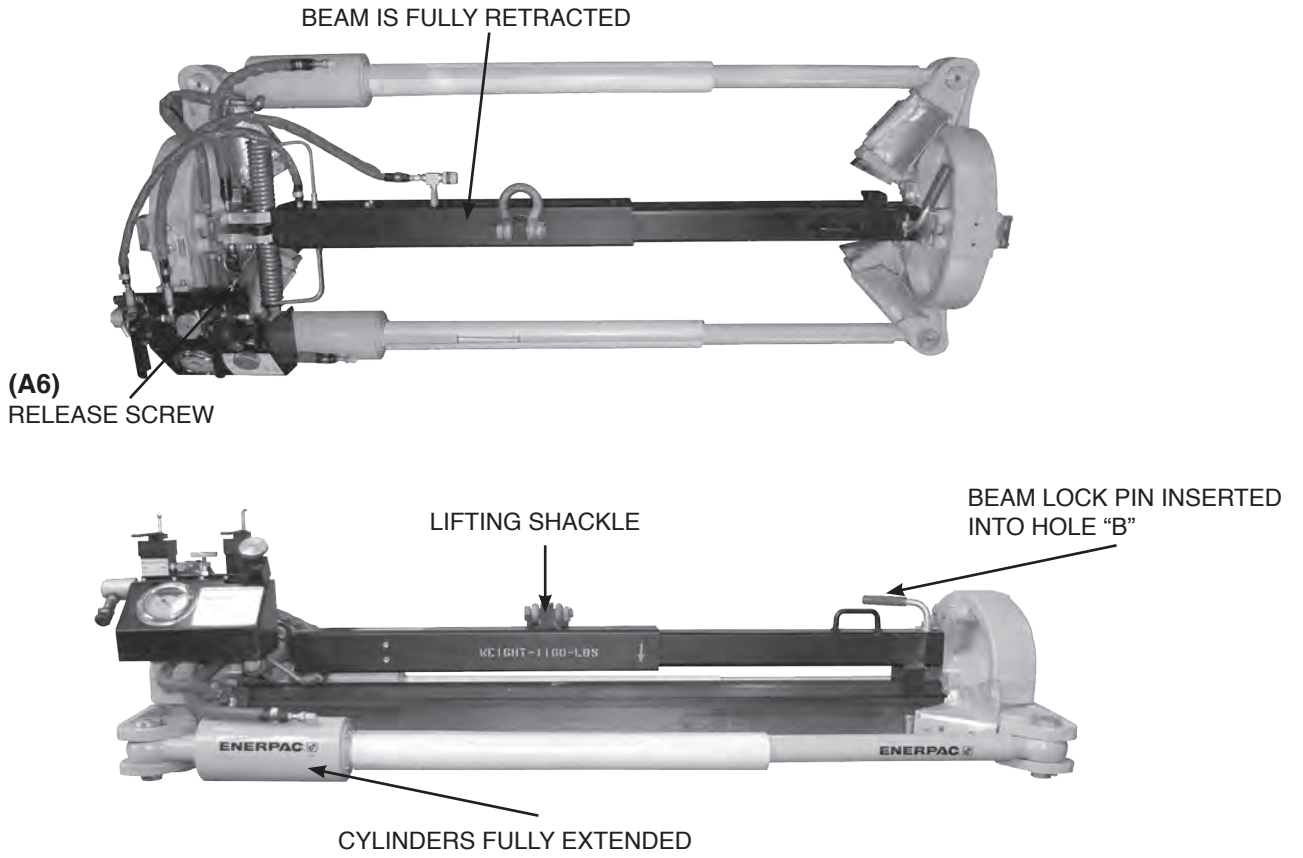
IMPORTANT - READ CAREFULLY

This manual contains important information on the correct installation, operation and maintenance of this equipment. All persons involved in the installation, operation and maintenance of this equipment must be thoroughly familiar with the contents of this manual. To safeguard against the possibility of personal injury or property damage, follow the recommendations and instructions of this manual. Keep this manual for reference.

- **ALWAYS** wear safety goggles and protective clothing during operation of this system.
- **NEVER** exceed the rated 2000 psi input pressure.
- **ALWAYS** inspect before each use all system parts for wear, distortion, cracks or improper fit.
- **NEVER** use a puller that is leaking oil; replace the leaking component before use.
- Non operating personnel should stand clear of the direction of force (directly in front of or behind the pullers) during the pull.
- **ALWAYS** be aware of pulling force & system pressure during the pull by monitoring the integrated tonnage (pressure) gauge while operating the system.
- Re-apply dust caps to quick couplers when not in use.
- Relieve any trapped pressure from puller by shifting the control valves with the PTO off before connecting or disconnecting PTO lines.
- **WARNING:** Never disassemble any hydraulic connections on the rail puller to release trapped pressure. See Troubleshooting Guide for correct procedure to release trapped pressure in the rail puller hydraulic circuit.
- **WARNING:** Do not remove rail anchors or clips while the puller is under tension on the rail. If rail movement occurs as anchors or clips are removed, the puller rail grips could lose their grip on the rail, allowing the puller to slide rapidly and with extreme force along the rail in either direction. Serious personal injury and property damage could result if puller strikes persons or objects in its path.

2.0 INTRODUCTION

DIAGRAM 3 RAIL PULLER IN OPEN POSITION



3.0 OPERATING INSTRUCTIONS

PLACING THE PULLER ON THE RAIL AND PULLING THE GAP

THE PULLER SHOULD BE STORED AND TRANSPORTED WITH THE PULLER IN THE OPEN POSITION (PULL CYLINDERS FULLY EXTENDED AND CARRYING BEAM FULLY RETRACTED). THIS ALLOWS THE PULLER TO BE HOISTED DIRECTLY OFF THE WELD TRUCK AND OVER THE BALL OF THE RAIL AT THE NEXT WELD WITHOUT ADJUSTMENT. WHEN LOWERING THE PULLER ON THE RAIL CENTER, THE RED ARROW LOCATOR OVER THE RAIL GAP FOR OPTIMUM POSITIONING. CONNECT THE PTO PRESSURE AND TANK LINES TO THE COUPLERS PROVIDED ON THE PULLER AND TURN ON THE PTO. **(PTO SHOULD BE SET TO 5 GPM's.)** NOW THAT THE PULLER IS IN POSITION ON THE RAIL, TAKE THE FOLLOWING STEPS TO OPERATE THE PULLER.

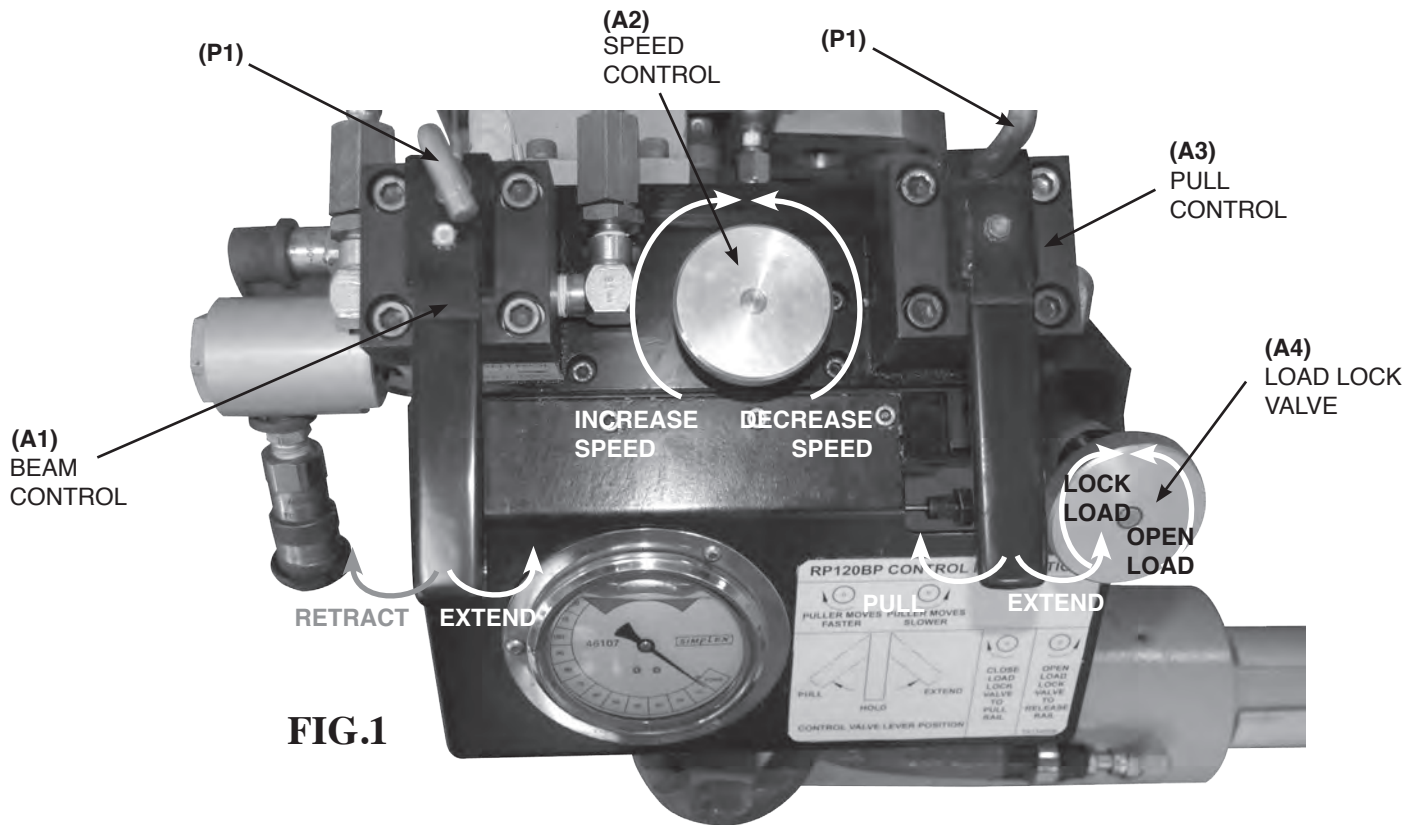


FIG.1

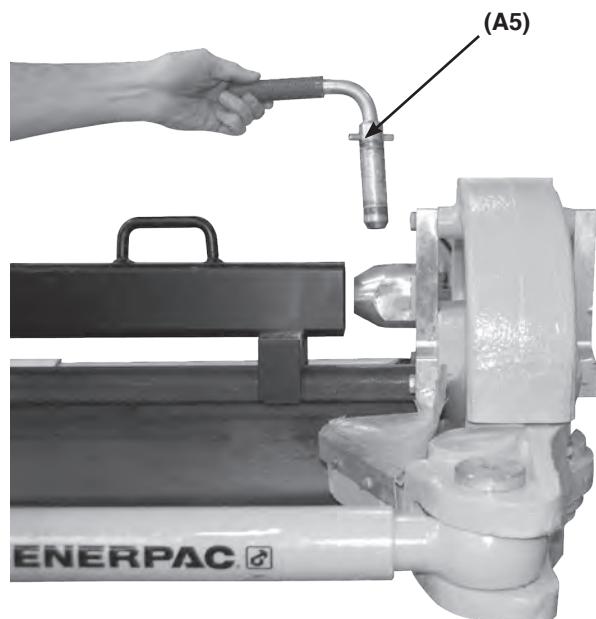


FIG.2

3.0 OPERATING INSTRUCTIONS (Continued)

PULLING THE GAP

NOTE: REMOVE THE LOCK PINS {(P1) IN FIG. 1} WHEN SHIFTING CONTROL HANDLES FOR SAFETY, REPLACE WHEN VALVES ARE NOT IN USE.

TO CLAMP THE RAIL WEB:

1. SHIFT THE BEAM CONTROL VALVE {(A1) IN FIG. 1} TO THE EXTEND POSITION.
2. TURN THE SPEED CONTROL VALVE {(A2) IN FIG. 1} CLOCKWISE UNTIL THE BEAM EXTENDS TO CLOSE AND SET THE SWING ARMS. AS SOON AS THE SWING ARMS ARE CLOSED, REOPEN THE CONTROL VALVE BY TURNING COUNTER CLOCKWISE.
3. CLOSE THE LOAD LOCK VALVE {(A4) IN FIG. 1} BY TURNING THE KNOB CLOCKWISE.

TO CLEAR THE BEAM:

4. REMOVE THE BEAM LOCK PIN {(A5) IN FIG. 2}.
5. SHIFT THE BEAM CONTROL VALVE {(A1) IN FIG. 1} TO THE RETRACT POSITION, AND TURN THE SPEED CONTROL VALVE {(A2) IN FIG. 1} CLOCKWISE UNTIL THE BEAM BEGINS TO RETRACT.
6. WHEN THE BEAM STOPS, SHIFT THE BEAM CONTROL VALVE {(A1) IN FIG. 1} BACK TO THE CENTER POSITION, AND REOPEN THE SPEED CONTROL VALVE {(A2) IN FIG. 1} BY TURNING COUNTER CLOCKWISE.
7. LIFT THE BEAM TO THE UPRIGHT POSITION. LOCK THE BEAM IN THE UPRIGHT POSITION BY REPLACING THE BEAM LOCK PIN {(A7) IN FIG. 3} IN THE PIVOT LOCK HOLE.

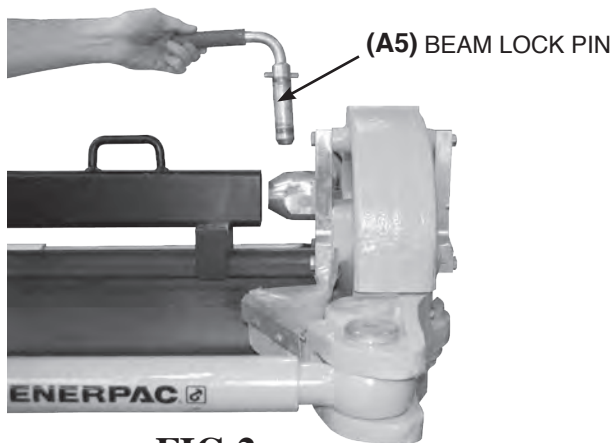


FIG.2

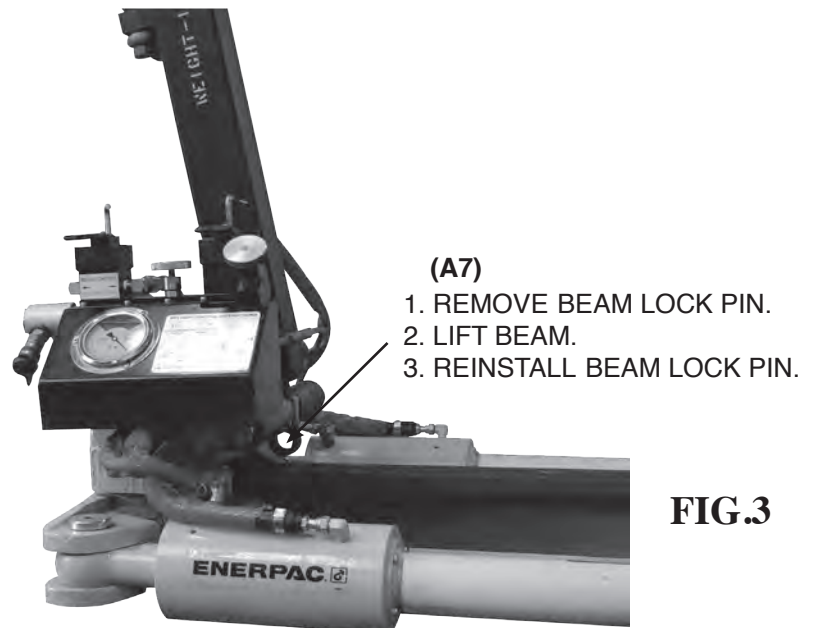


FIG.3

TO PULL THE GAP:

8. SHIFT THE PULL CONTROL VALVE {(A3) IN FIG. 1} TO THE PULL POSITION AND BEGIN TURNING THE SPEED CONTROL VALVE {(A2) IN FIG. 1} CLOCKWISE UNTIL THE PULLER BEGINS CLOSING THE GAP, MONITOR THE TONNAGE GAUGE FOR PULL FORCE.

NOTE: CONTINUING TO TURN THE SPEED CONTROL {(A2) IN FIG. 1} CLOCKWISE INCREASES THE SPEED AND FORCE OF THE PULL. TURN THE SPEED CONTROL VALVE {(A2) IN FIG. 1} COUNTER CLOCKWISE TO SLOW DOWN THE PULL FOR MEASURING AND CONTROLLING THE GAP IN THE FINAL STAGES OF PULL.

9. AS SOON AS THE GAP IS MADE, SHIFT THE PULL CONTROL VALVE {(A3) IN FIG. 1} BACK TO THE CENTER POSITION, AND TURN THE SPEED CONTROL VALVE {(A2) IN FIG. 1} COUNTER CLOCKWISE.

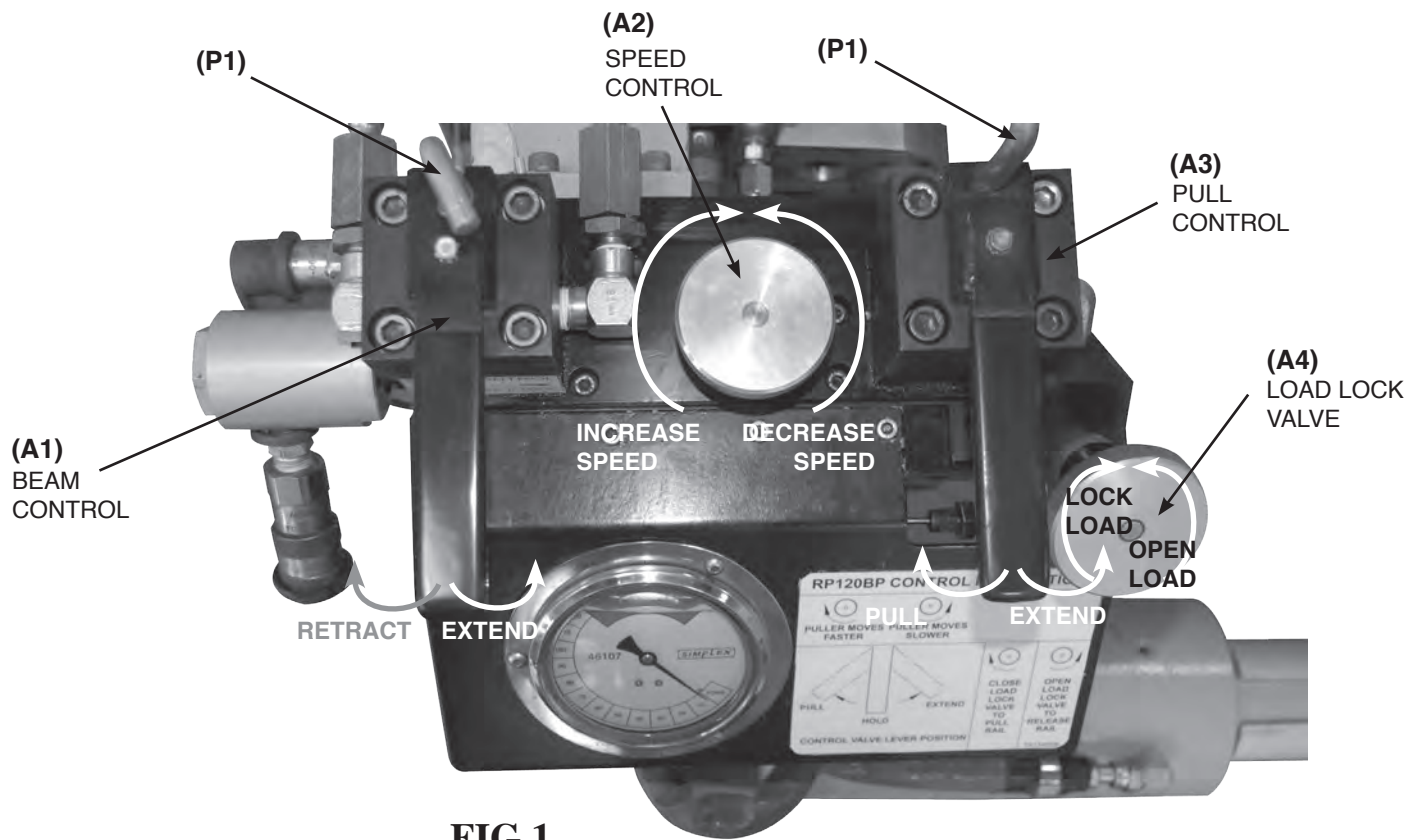


FIG.1

(A5) LOCK BEAM PIN

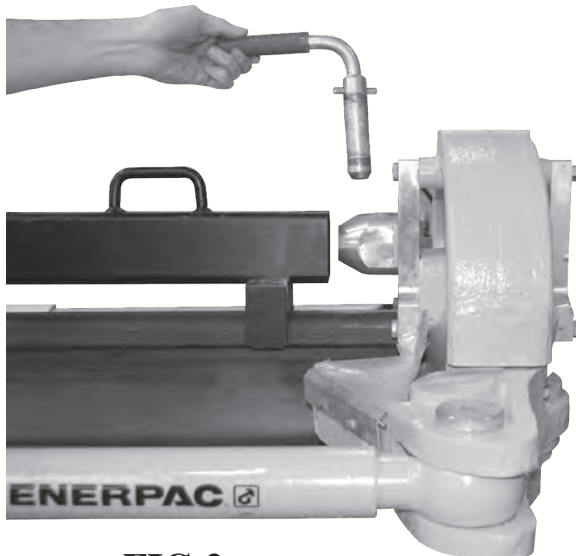


FIG.2

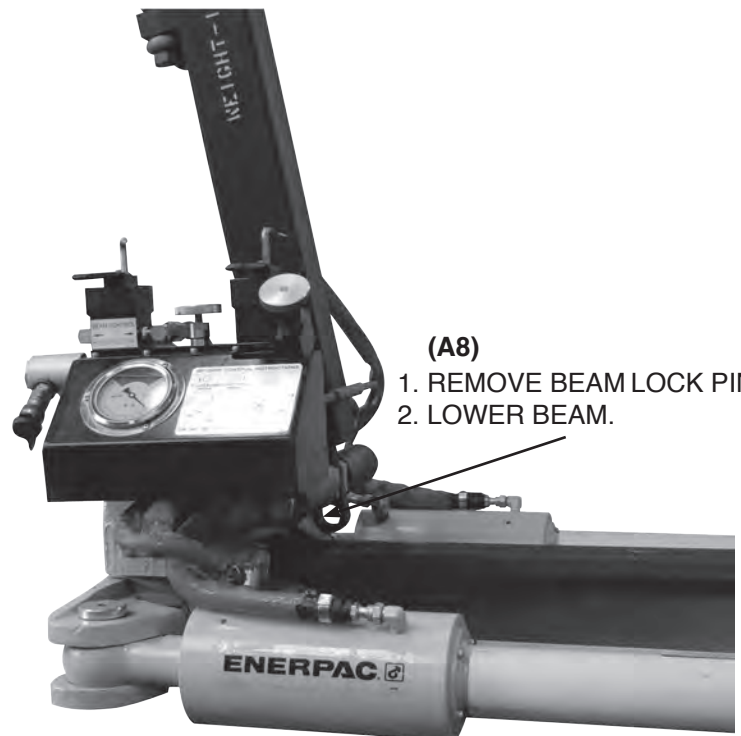


FIG.4

3.0 OPERATING INSTRUCTIONS (Continued)

RELIEVING PRESSURE:

WITH PTO OFF, SHIFT THE PULL CONTROL VALVE **{{A3} IN FIG. 1}** TO THE EXTEND POSITION. OPEN THE LOAD LOCK VALVE **{{A4} IN FIG. 1}** BY TURNING THE KNOB COUNTER CLOCKWISE. THE PRESSURE READING ON THE TONNAGE GAUGE SHOULD BE ZERO. SHIFT THE PULL CONTROL VALVE **{{A3} IN FIG. 1}** BACK TO THE CENTER POSITION.

REMOVING PULLER FROM RAIL:

1. REMOVE THE BEAM LOCK PIN **{{A8} IN FIG. 4}** AND LOWER THE BEAM BACK ONTO THE RAIL.
2. START PTO. SHIFT THE PULL CONTROL VALVE **{{A3} IN FIG. 1}** TO THE EXTEND POSITION. TURN THE SPEED CONTROL VALVE **{{A2} IN FIG. 1}** CLOCKWISE UNTIL THE PULL CYLINDERS EXTEND. AS SOON AS THEY REACH THEIR FULL EXTENSION, REOPEN THE SPEED CONTROL VALVE BY TURNING IT COUNTER CLOCKWISE. SHIFT THE PULL CONTROL VALVE **{{A3} IN FIG. 1}** TO THE CENTER POSITION.
3. SHIFT THE BEAM CONTROL VALVE **{{A1} IN FIG. 1}** TO THE EXTEND POSITION. TURN THE SPEED CONTROL VALVE **{{A2} IN FIG. 1}** CLOCKWISE UNTIL THE BEAM EXTENDS TO THE CLAMP. AS SOON AS THE BEAM REACHES THE CLAMP, REOPEN THE SPEED CONTROL VALVE BY TURNING IT COUNTER CLOCKWISE. SHIFT THE BEAM CONTROL VALVE **{{A1} IN FIG. 1}** TO THE CENTER POSITION.
4. WITH THE BEAM REATTACHED TO THE CLAMP REPLACE THE BEAM LOCK PIN **{{A5} IN FIG. 2}**.
5. SHIFT THE BEAM CONTROL VALVE **{{A1} IN FIG. 1}** TO THE RETRACT POSITION. TURN THE SPEED CONTROL VALVE **{{A2} IN FIG. 1}** CLOCKWISE UNTIL THE BEAM FULLY RETRACTS. AS SOON AS THE BEAM FULLY RETRACTS, REOPEN THE SPEED CONTROL VALVE BY TURNING IT COUNTER CLOCKWISE. SHIFT THE BEAM CONTROL VALVE **{{A1} IN FIG. 1}** TO THE CENTER POSITION.
6. TURN PTO OFF. SHIFT BOTH CONTROL VALVES BACK AND FORTH A COUPLE OF TIMES TO RELEASE ANY TRAPPED PRESSURE. ONCE THIS IS DONE, RETURN THEM TO THE CENTER POSITION AND REPLACE THE LOCK PINS.
7. DISCONNECT THE PTO PRESSURE AND TANK LINES.
8. REMOVE PULLER FROM RAIL BY HOISTING AT THE BEAM LIFTING SHACKLE.

4.0 TROUBLESHOOTING GUIDE

If the procedures listed below do not remedy the problem - the equipment will require service and should be taken to an Enerpac Authorized Service Center for repair.

Puller Fails to Operate.

1. Check pressure and tank connections for PTO.
2. Make sure PTO is turned on.
3. Check PTO for required pressure 2000 psi and flow 5 GPM minimum.
4. Close speed control valve.
5. Check cylinder hose connections.
6. Check for external leaks.
7. Take unit to Enerpac Authorized Service Center for repairs.

Puller Operates But Fails to Build Full 120 Tons of Pulling Force.

1. Check for required pressure 2000 psi and flow 5 GPM minimum.
2. Close speed control valve.
3. Check cylinder hose connections.
4. Check for external leakages.
5. Check for faulty gauge.
6. Take unit to Enerpac Authorized Service Center for repairs.

Puller Beam Will Not Retract to Open Puller.

1. Check pull indicator. If pull cylinders are at maximum extension, it will be necessary to operate the puller through several load and unload cycles until clamps have some play on the rail. Rocking the unit up and down is effective to shake the puller loose. Then retract the beam.

Unable to Connect or Disconnect PTO Lines.

1. Make sure the PTO is off.
2. Remove the lock pins. Shift both control valves through all positions.
3. Open the speed control valve all the way turning the knob counterclockwise.

Trapped Hydraulic Pressure in the Rail Puller Hydraulic Circuit.

4. Open the release screw valve{(A6) on Pg. 4} on the back of the intensifier manifold by turning counter clockwise 1 to 1.5 turns using pliers and a rag to protect yourself from possible oil spray. Shift both control valves{(A1) & (A3) in Fig. 1 on Pg. 5} through all positions to release remaining trapped pressure.

Rail Puller Hydraulically Locked on the Rail.

5.0 MAINTENANCE

1. Lubricate pivot points annually with anti-seize compound. Inspect and lubricate more often if needed.
2. Keep contact surfaces of swing arms and clamp brackets clean and oiled so swing arms move freely.
3. Inspect and clean grip teeth before each use.

VISIT WWW.ENERPAC.COM FOR REPAIR PARTS INFORMATION

Enerpac Worldwide Locations

◆ e-mail: info@enerpac.com

◆ internet: www.enerpac.com

Australia and New Zealand

Actuant Australia Ltd.
Block V Unit 3
Regents Park Estate
391 Park Road
Regents Park NSW 2143
(P.O. Box 261) Australia
T +61 (0)2 9743 8988
F +61 (0)2 9743 8648
sales-au@enerpac.com

Brazil

Power Packer do Brasil Ltda.
Rua Luiz Lawrie Reid, 548
09930-760 - Diadema (SP) - Brazil
T +55 11 5525 2311
Toll Free: 0800 891 5770
vendasbrasil@enerpac.com

Canada

Actuant Canada Corporation
6615 Ordan Drive, Unit 14-15
Mississauga, Ontario L5T 1X2
T +1 905 564 5749
F +1 905 564 0305
Toll Free:
T +1 800 268 4987
F +1 800 461 2456
customer.service@actuant.com

China

Actuant (China) Industries Co. Ltd.
No. 6 Nanjing East Road,
Taicang Economic Dep Zone
Jiangsu, China
T +86 0512 5328 7500
F +86 0512 5335 9690
Toll Free: +86 400 885 0369
sales-cn@enerpac.com

France, Switzerland, North Africa and French speaking African countries

ENERPAC
Une division d'ACTUANT France S.A.
ZA de Courtaboeuf
32, avenue de la Baltique
91140 VILLEBON /YVETTE
France
T +33 1 60 13 68 68
F +33 1 69 20 37 50
sales-fr@enerpac.com

Germany and Austria

ENERPAC GmbH
P.O. Box 300113
D-40401 Düsseldorf
Willstätterstrasse 13
D-40549 Düsseldorf, Germany
T +49 211 471 490
F +49 211 471 49 28
sales-de@enerpac.com

India

ENERPAC Hydraulics Pvt. Ltd.
No. 1A, Peenya Industrial Area
IInd Phase, Bangalore, 560 058, India
T +91 80 40 792 777
F +91 80 40 792 792
sales-in@enerpac.com

Italy

ENERPAC S.p.A.
Via Canova 4
20094 Corsico (Milano)
T +39 02 4861 111
F +39 02 4860 1288
sales-it@enerpac.com

Japan

Applied Power Japan LTD KK
Besshocho 85-7
Kita-ku, Saitama-shi 331-0821, Japan
T +81 48 662 4911
F +81 48 662 4955
sales-jp@enerpac.com

Middle East, Egypt and Libya

ENERPAC Middle East FZE
Office 423, LOB 15
P.O. Box 18004, Jebel Ali, Dubai
United Arab Emirates
T +971 (0)4 8872686
F +971 (0)4 8872687
sales-ua@enerpac.com

Russia

Rep. office Enerpac
Russian Federation
Admirala Makarova Street 8
125212 Moscow, Russia
T +7 495 98090 91
F +7 495 98090 92
sales-ru@enerpac.com

Southeast Asia, Hong Kong and Taiwan

Actuant Asia Pte Ltd.
83 Joo Koon Circle
Singapore 629109
T +65 68 63 0611
F +65 64 84 5669
Toll Free: +1800 363 7722
sales-sg@enerpac.com

South Korea

Actuant Korea Ltd.
3Ba 717, Shihwa Industrial Complex
Jungwang-Dong, Shihung-Shi,
Kyunggi-Do
Republic of Korea 429-450
T +82 31 434 4506
F +82 31 434 4507
sales-kr@enerpac.com

Spain and Portugal

ENERPAC SPAIN, S.L.
Avda. Los Frailes, 40 – Nave C & D
Pol. Ind. Los Frailes
28814 Daganzo de Arriba
(Madrid) Spain
T +34 91 884 86 06
F +34 91 884 86 11
sales-es@enerpac.com

Sweden, Denmark, Norway, Finland and Iceland

Enerpac Scandinavia AB
Fabriksgatan 7
412 50 Gothenburg
Sweden
T +46 (0) 31 799 0281
F +46 (0) 31 799 0010
scandinavianinquiries@enerpac.com

The Netherlands, Belgium, Luxembourg, Central and Eastern Europe, Baltic States, Greece, Turkey and CIS countries

ENERPAC B.V.
Galvanistraat 115
6716 AE Ede
P.O. Box 8097
6710 AB Ede
The Netherlands
T +31 318 535 911
F +31 318 535 848
sales-nl@enerpac.com

Enerpac Integrated Solutions B.V.

Opaalstraat 44
7554 TS Hengelo
P.O. Box 421
7550 AK Hengelo
The Netherlands
T +31 74 242 20 45
F +31 74 243 03 38
integratedsolutions@enerpac.com

South Africa and other English speaking African countries

Enerpac Africa Pty Ltd.
No. 5 Bauhinia Avenue
Cambridge Office Park
Block E
Highveld Techno Park
Centurion 0157
South Africa
T: +27 12 940 0656

United Kingdom and Ireland

ENERPAC UK Ltd.
5 Coopies Field
Morpeth, Northumberland
NE61 6JR, England
T +44 (0)121 50 50 787
F +44 (0)121 50 50 799
sales-uk@enerpac.com

USA, Latin America and Caribbean

ENERPAC
P.O. Box 3241
Milwaukee WI 53201 USA
T +1 262 293 1600
F +1 262 293 7036
User inquiries:
T +1 800 433 2766
Distributor inquiries/orders:
T +1 800 558 0530
F +1 800 628 0490
Technical inquiries:
techservices@enerpac.com
sales-us@enerpac.com

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