


PBR SERIES AERATORS



Owner/Operator's Manual



MANUFACTURING CORPORATION
6001 EAST HWY 27 • OZARK, ALABAMA 36360
PHONE: (334) 795-6603 • FAX: (334) 795-3029
www.brownmfgcorp.com

⚠ WARNING	
	Before operating your machine, stop and read this owners manual. Do not attempt to operate the unit until you fully understand the material covered in this manual. Without the knowledge contained in this manual, injury or death can result.

Copyright

Copyright ©2007 Brown Manufacturing Corporation. All photos and illustrations are property of Brown Manufacturing Corporation. This publication may be freely reproduced, either in whole or in part, provided that the content herein is not altered.

Cover

Pictured: Model PBR-1200.

Disclaimer

Due to engineering improvements and revision of product specifications, the information contained in this manual is subject to change without notice.

Contents

Warranty.....	4
Registration.....	5
Safety.....	7
Specifications.....	13
Assembly.....	14
Replacement Parts PBR-SERIES.....	17

Warranty Statement

LIMITED WARRANTY

BROWN MANUFACTURING CORP. hereby warrants that Brown's products will be free from defects in material and workmanship under normal use according to the provisions and limitations herein set forth. All parts, specifically EXCLUDING expendable 'wear' parts, that become unserviceable, due to defective material or workmanship, within 12 months /365 days from date of the original retail purchase, shall, at Brown's option, be repaired or replaced.

LIMITATIONS

The obligations of Brown for breach of warranty shall be limited to products manufactured by Brown; (1) that are installed, operated, and maintained according to Brown's instruction furnished and/or available to the purchaser upon request; (2) that are installed according to all other applicable Federal, State, and local codes or regulations; and (3) that the purchaser substantiates were defective in material and workmanship notwithstanding that they were properly installed and correctly maintained as set forth and were not abused or misused. The obligation of Brown shall be limited to replacing or repairing the defective product, at the option of Brown. Brown shall not be responsible for any labor or cost of removal or repairing or reinstallation of its products and shall not be liable for transportation costs to and from its plant in Ozark, Alabama. Use of parts for modification or repair of the product or any component part thereof not authorized or manufactured by Brown specifically for such product shall void this warranty. This warranty shall not apply to any damage to or defect in the Brown's products that is directly or indirectly caused by; (1) FORCE MAJEURE, act of GOD, or other accident not related to an inherent product defect; or (2) abuse, misuse, or neglect of the such product, including any damage caused by improper assembly, installation, adjustment, or faulty instruction of the purchaser. **OTHER THAN AS EXPRESSLY SET FORTH HEREINABOVE, BROWN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO ANY OF BROWN'S PRODUCTS, INCLUDED BUT NOT LIMITED TO ANY MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BROWN BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE SUFFERED BY PURCHASER OR ANY OTHER PERSON OR ENTITY CAUSED IN WHOLE OR IN PART BY ANY OF BROWN'S PRODUCTS.** Any person or entity to whom this warranty extends and who claims breach of warranty against Brown must bring suit thereon within one year from the date of occurrence of such breach of warranty or be forever barred from any and all legal or other remedies for such breach of warranty. Brown is not responsible for and hereby disclaims any undertaking, representation, or warranty made by any dealer, distributor, or other person that is inconsistent with or in any way more expensive than the provisions of this limited warranty. This warranty grants specific legal rights and shall be read in conformity with applicable state law. In some jurisdictions, the applicable law mandates warranty provisions that provide greater rights than those provided for herein. In such case, this limited warranty shall be read to include such mandates provisions; and any provision herein that is prohibited or unenforceable in any such jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceable without invalidating the remaining provisions and without affecting the validity or enforceability of such provisions in any other jurisdiction.

STATEMENT OF POLICY

In accordance with our established policy of constant improvement, we reserve the right to amend these specifications at any time without notice.

WARRANTY BY MANUFACTURER

Dealer/distributor understands and agrees that the manufacturer extends only the following warranty to its customers. In the event dealer/distributor extends any additional warranty such as enlarging the scope or period of warranty or undertaking a warranty of fitness for any particular purpose or obligation not encompassed in manufacturer's warranty, dealer/distributor shall be solely responsible therefore and shall have no recourse against manufacturer with respect thereto.

Owner Registration

To place the manufacturer's warranty into effect, the registration card below must be mailed within thirty (30) days after receiving equipment.

Owner Registration



Important: To place the manufacturer's warranty into effect, the card must be mailed within thirty (30) days after receiving equipment.

Model: PBR- _____

Serial No.: _____

For further information:
Brown Manufacturing Corp.
6001 EAST HWY. 27
Ozark, AL 36360

Date Purchased: ___ / ___ / ___

Dealer: _____

Phone: (334) 795-6603
Toll Free: (800) 663-8909
FAX: (334) 795-3029

www.brownmfgcorp.com
brown@brownmfgcorp.com

Owner Registration



Important: To place the manufacturer's warranty into effect, this card must be mailed within thirty (30) days after receiving equipment.

Name: _____

Address: _____

City: _____ State: _____

Model: PBR- _____

Serial No.: _____

Return to:
Brown Manufacturing Corp.
6001 EAST HWY. 27
Ozark, AL 36360

Date Purchased: ___ / ___ / ___

Dealer: _____

Please use envelope.

Equipment Safety

Warning: Read this manual before operation.

Operators of the equipment must read and understand this manual. Failure to read this manual and follow these safety and operating instructions could result in serious bodily injury or even death.

WARNING



Before operating your machine, stop and read this owners manual. Do not attempt to operate the unit until you fully understand the material covered in this manual. Without the knowledge contained in this manual, injury or death can result.

Equipment Safety

Recognize safety information

This is the safety alert symbol. When you see this symbol on your equipment or in this manual, be alert to the potential for personal injury or injury to others.



Understand signal words

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.







Follow safety instructions.

- Read owner/operator manual.
- Replace missing or damaged safety decals.
- Safety decals and this manual must be considered a permanent part of your equipment.
- Should ownership of the equipment be transferred, this manual must also be transferred.
- Unauthorized modifications to the equipment are not recommended. This could impair the function, safety, and life of the machine.
- For any part of this manual that you do not understand, contact your dealer or Brown Manufacturing Corporation at (800) 633-8909.
- All implements with moving parts are potentially dangerous. Due to this fact, there is no substitute for a safe, knowledgeable operator. It is important that all persons operating this equipment read, understand, and follow the instructions provided in this manual.





Equipment Safety

Safety Decals

The following safety decals should be attached to the equipment at all times. Should any decal become damaged or lost, it is the responsibility of the owner to replace it. Additional decals may be obtained from the manufacturer.

 WARNING	 ADVERTENCIA
	<p>Antes de probar la unidad por primera vez deben remitirse a las instrucciones contenidas en el manual.</p>
<p>Read and understand owner's manual before operating unit.</p>	<p> ADVERTISSEMENT</p> <p>S'assurer de bien comprendre toutes les consignes du manuel de propriétaire avant d'utiliser la unité.</p>

Part No.: SD-010.

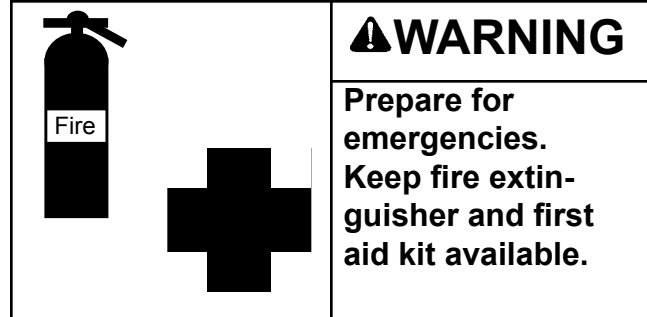
 DANGER	 PELIGRO
	<p>CUCHILLAS ROTATIVAS</p> <ul style="list-style-type: none"> •Guarden las manos y los pies lejos de las cuchillas. •No se acerquen a la máquina estando funcionando el motor.
<p>ROTATING BLADES</p> <ul style="list-style-type: none"> •Keep hands and feet away from blades. •Stay away from machine when engine running. 	<p> DANGER</p> <p>LAMES ROTATIVES</p> <ul style="list-style-type: none"> •Garder les mains et les pieds éloignés des lames rotatives. •Rester loin de la machine quand le moteur tourne.

Part No.: SD-012A.

Equipment Safety

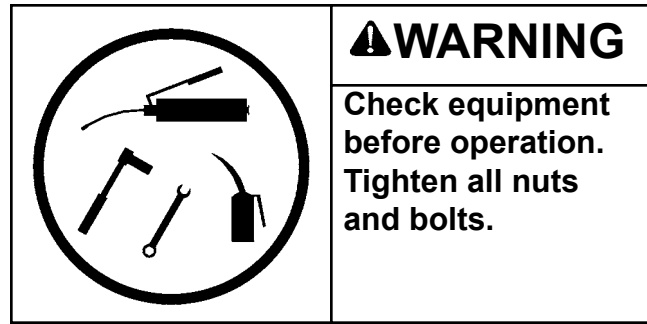
Warning! Prepare for emergencies.

Keep fire extinguisher and first aid kit available.



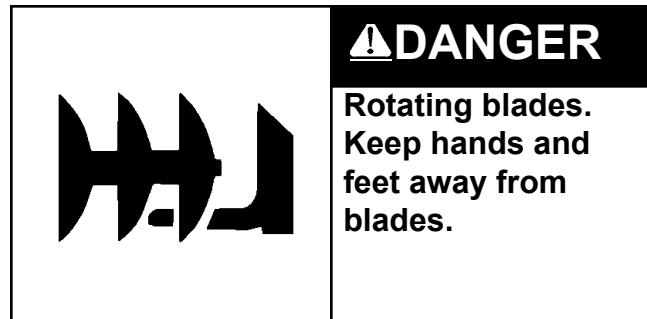
Warning! Check equipment before operating.

Tighten all nuts and bolts before operating. Make certain that equipment is lowered to ground before attempting to make adjustments or perform maintenance.



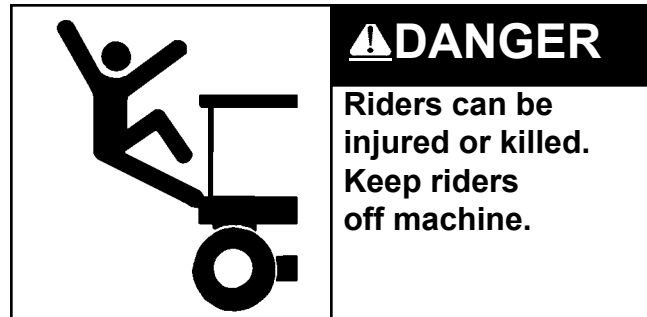
Danger! Stay clear of rotating blades.

The harrow is designed to cut soil, turf, and ground-litter. Keep hands and feet away from blades!

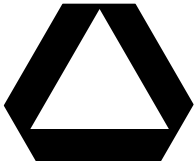


Danger! Keep riders off machine.

Riders can be seriously injured or killed by entanglement or by falling.



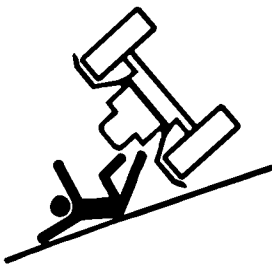
Equipment Safety



⚠️ WARNING

Transport with care. Use slow-moving vehicle emblem and flashing light. Follow local traffic regulations.

Warning! Transport with care. Before transporting to a new location, make certain that the slow-moving vehicle emblem is installed and is clearly visible. Use flashing lights and follow local traffic regulations.

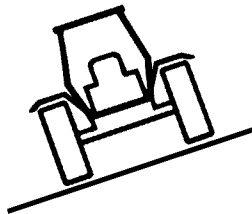


⚠️ WARNING

Use only with tractors equipped with a certified roll-over protection system.

Warning! Roll-over protection.

Do not operate the harrow on any tractor not equipped with a certified roll-over protection system.



⚠️ WARNING

Slow travel speed when operating on slopes or rough terrain.

Warning! Slopes and rough terrain.

When operating on slopes or rough terrain, slow travel speed. Do not operate in an area where the tractor could roll over. **Be sure to fasten safety belt when operating tractor!**

SPECIFICATION

PBR-SERIES

Model #	PBR-800	PBR-1000	PBR-1200	PBR-1700
Overall Width	8'	10'	12'	17'
Working Width	7'3"	8'6"	11'	15'6"
H.P. Requirement	40-80	60-100	75-100	90-150
Weight - Lbs.	1925	2180	2480	2790
No. of Tines	48	56	72	88
Axle Length	50-1/8"	57-5/8"	72-5/8"	87-5/8"
Gang Arm Length	4x4x3/8 x 51-1/2"	4x4x3/8 x 59"	4x4x3/8 x 74"	4x4x3/8 x 89"
Gang Arm	Quick Adjust	Quick Adjust	Quick Adjust	Quick Adjust
Bearings - Guarded	1-1/2" Flange	1-1/2" Flange	1-1/2" Flange	1-1/2" Flange
Bearing Hanger	Rigid	Rigid	Rigid	Rigid
Light Kits	Standard DOT Approved	Standard DOT Approved	Standard DOT Approved	Standard DOT Approved
SMV Decal	Standard DOT Approved	Standard DOT Approved	Standard DOT Approved	Standard DOT Approved

Pull Kit and Weight Container Specifications				
	PBR-800	PBR-1000	PBR-1200	PBR-1500
Pull Kit Part #	PT-100	PT-100/PT-200	PT-200/PT-300	PT-300
Weight - Lbs.	840	840/980	980/1000	1000
No. of Tires	2	2/4	4	4
Hyd. Cylinder	3" x 12"	3" x 12"	3"x12"/4"x12"	4" x 12"
Tongue Jack	Standard	Standard	Standard	Standard
Weight Container				
23-1/2" Cubes w/ Lift points - Approx. 8 Cubic Feet - 60 Lbs. shipping weight				
Number of containers per frame	3	3	5	6

Assembly

Your Aerator comes fully assembled except the light kit and SMV placard that must be installed before operation begins.

Step: 1

Find and mount your light kit into the mounting holes on the outside rear corners of your unit. Route the wiring harness through the frame so that your weights or weight boxes will not make contact or rub the wiring, use the provided wiring clips to secure the wiring onto the frame. The female plug on the end of the wiring has a storage mount when not in use, it is located on the center bracket of the 3-point hitch. This storage bracket requires a 1/4 twist to hold the plug into the storage bracket.



Step: 2

Find and mount your SMV placard into the bracket on the rear of the unit.



Assembly

MOUNTING INSTRUCTIONS FOR PULL KIT

Step: 3

Find and mount tires and wheels onto hubs of transport dolly.

Step: 4

Align transport dolly with the mounting brackets on the back of aerator frame, when mounting points are aligned install pins into the brackets. Make sure the flat sides align with the stops welded to the outside of one mounting bracket. Drive roll pins into pins to secure pins into frame.



Step: 5

Find and mount hydraulic cylinder body on upper cylinder mount on rear of frame as shown below and onto the transport dolly, using mounting pins on hydraulic cylinder. Connect hydraulic hoses onto cylinder and route hoses through U-bolt brackets welded onto frame and secure with straps and nuts. The rod clevis clamp bolt should be facing you as in picture below.



Assembly

Step: 6

Find and mount tongue into the front 3-point hitch using the CAT II hitch pins. Mount tongue brace into top link positions and tongue height bracket on tongue assembly. This adjustable height bracket will need to be adjusted to match your tractor's draw bar height, allowing the tongue to stay in a level position during operation.



Step:7

Find and mount tongue jack onto pivot tube welded to tongue. Continue to route hydraulic hoses down the tongue and secure through welded U-bolt mounts and straps.



**REPLACEMENT PARTS
FOR ALL PBR - SERIES
BROWN AERATOR**

**MODEL#’S
PBR-800, PBR-1000
PBR-1200 & PBR-1700**

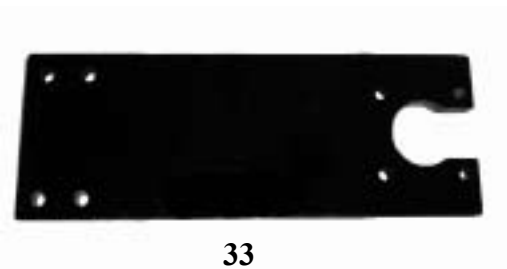
Replacement Parts PBR-Series



Replacement Parts PBR-Series

Ref. No.	Part No.	Description
1	225-0001 225-0008	Spool, 7.25" LH Cast Steel Double Flange Spool, 7.25" RH Cast Steel Double Flange
2	225-0002	Spool, end
3	255-0011	Nut, Tine, Bolt, 1/2 x 20 FLG, Stover
4	255-0010	Bolt, Tine, 1/2 - 20 x 2 3/4 Flanged
5	225-0003 225-0004	Tine, LH Tine, RH
	225-0123	Tine, set of 12 #225-0003
	225-0124	Tine, set of 12 #225-0004
6	NSB50CZ	Nut, Stover Lock 1/2-13
7	225-0100	Bearing, 4-hole flange, 1-1/2"
8	HC58C36Z	Bolt, 1/2-13 x 2-1/4" HCS GR5

Replacement Parts PBR-Series



Replacement Parts PBR-Series

Ref. No.	Part No.	Description
20	225-0036	Axle, weldment, 8', PBR-800, PBR-1700
	225-0037	Axle, weldment, 10' PBR-1000
	225-0038	Axle, weldment, 12' PBR-1200
21	NSJ112F	Nut, slotted, 1-1/2"-12 Slotted Hex Jam
21A	TC-135	Pin, cotter, 3/16 x 3"
22	700-225-0075	Spacer, axle
23	255-0007	Washer, 1-1/2", flat, grade 8
24	225-0014	Dust cap
25	TC-109	Bearing, outer
26	225-0010	Hub, assembly complete
27	225-0013	Bearing, inner
28	225-0015	Seal
29	225-0059	Spindle, with nut & pin
30	225-0034	Gang arm, 8', PBR-800
	225-0029	Gang arm, 10', PBR-1000
	225-0030	Gang arm, 12', PBR-1200
	225-0031	Gang arm, 17', PBR-1700
31	225-0040	Pin, pivot, gang arm
32	PRO38S32Z	Pin, roll, 3/8 X 2"
33	225-0085	

Replacement Parts PBR-Series

Pull Kit Parts



33



34



35



36



37

38



39

40



42



43



41



44

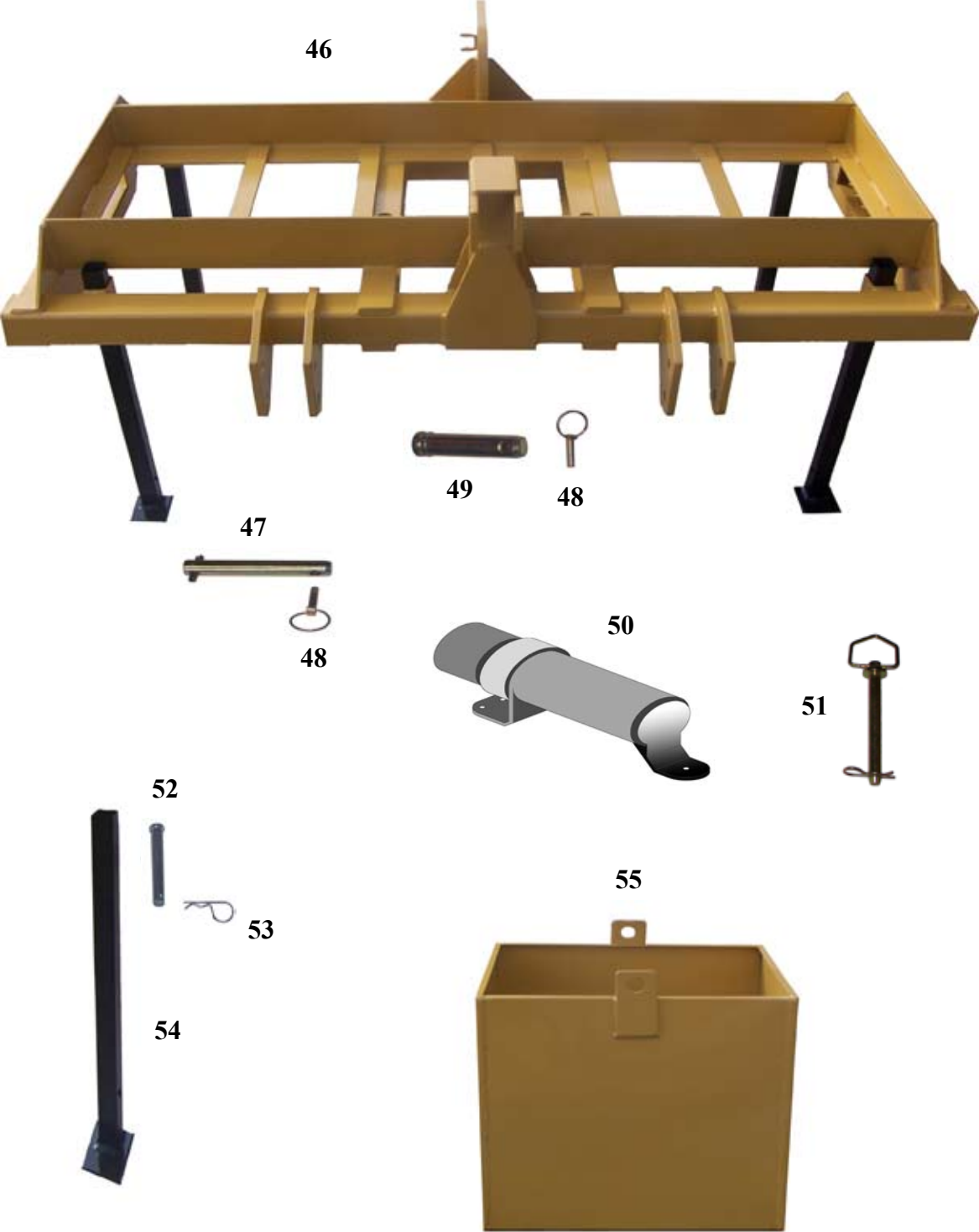


45

Replacement Parts PBR-Series

Ref. No.	Part No.	Description
33	225-0024	Cylinder, hydraulic, 3" x 12"
	225-0025	Cylinder, hydraulic, 4" x 12"
34	225-0026	Hose, hydraulic
35	225-0046	Jack
36	225-0016	Tire & wheel
37	225-0041	Pin, pivot
38	PRO38S32Z	Pin, roll, 3/8" x 2"
39	225-0032	Carrier, 2-spindle
	225-0033	Carrier, 4-spindle
40	500-22	Pin
41	TC-126A	Pin
42	225-0048	Tongue
43	UT-207A	Pin with hair clip
44	225-0049	Brace, tongue
45	225-0068	Strap, hyd. hose
NP	225-0009	Stop, Cylinder, Aerator Pull Kit
NP	225-0017	Bolt, Lug 9/16-18 x 1 3/8
NP	225-0027	Chain, Safety, Aerator Pull Kit

Replacement Parts PBR-Series



Replacement Parts PBR-Series

Ref. No.	Part No.	Description
46	225-0020	Frame, 8', PBR-800
	225-0021	Frame, 10', PBR-1000
	225-0022	Frame, 12', PBR-1200
	225-0023	Frame, 17', PBR-1700
47	TC-126	Pin, CAT. II, lift
48	TC-126A	Pin, lynch, 7/16"
49	500-22	Pin, CAT II, top link
50	MH-01	Manual holder
51	UT-207A	Pin, with hair clip
52	225-0064	Pin, clevis, 1/2" x 3"
53	225-0065	Pin, hair clip
54	225-0044	Stand
55	225-0047	Weight container
*NP	225-0050	Light kit, 8'
NP	225-0051	Light kit, 10'
NP	225-0052	Light kit, 12'
NP	225-0053	Light kit, 17'
NP	225-0054	SMV, placard
NP	225-0055	SMV, placard bracket
NP	255-0008	Wiring harness clip

* NOT PICTURED PARTS

PBR Series
Version 1.2

