OSBORNE

Hog Feeders

U.S. Patent No. 4,353,329, 4,462,338 & 6,199,511
Patented Canada 1984. Others worldwide

BIG WHEEL®

RN4 SERIES

NURSERY CONFINEMENT FEEDER

Assembly & Operating Instructions

Your Osborne Big Wheel hog feeders are packaged carefully and compactly to ensure their safe arrival at minimum cost. Each part was quality inspected prior to shipment and each carton was carefully packed to ensure that all necessary parts were present for the assembly.

UNPACKING

Upon receiving your shipment, check the cartons for in transit handling damage in transit. ALERT THE DELIVERING CARRIER IMMEDIATELY if damage is discovered. Continue unpacking only after the carrier has acknowledged the damage and potential loss of contents.

NOTICE

All loss or damage in transit is the responsibility of the delivering carrier, NOT OSBORNE INDUSTRIES. To protect your rights in the event of damage or loss, **sign the delivery waybill only after the carrier has acknowleged in writing that damage or loss has occurred.** In the event that damage is revealed only after unpacking is complete, notify the delivering carrier immediately and request an inspection of the damaged merchandise before proceeding.

Locate the Inspection List and retain this with the waybill. Identify all parts with the Parts List (on the reverse) as they are unpacked and compare with the Inspection List. Once all parts have been identified, inspected for freight damage, and counted, proceed to assembly.

ASSEMBLY INSTRUCTIONS

Before attemting assembly, refer to the Parts Diagram on the reverse side. Begin by locating Item 12, trough base. Insert Item 10, the feed axle into the recess at the center of the trough. Drill four (4) holes through the fiberglass trough base, using the feed axle as a guide and a 3/16-in. drill bit. (NOTE: Masonry type drill bits are prefered for fiberglass because high speed steel bits rapidly become dull).

Fasten the plate of the feed axle to the trough with the four (4) flat-head bolts and flange nuts, Items 11 and 13, provided. Loctite is recommended for use on the axle bolts and nuts. Next locate the feed wheel washer, Item 9, and the feed wheel, Item 8, on the feed axle. The feed wheel should turn freely on the feed axle. If it does not, check for paint residues and remove if necessary.

Next, place the cage, Item 6, on the trough base. Make certain the cage is forced as far over the trough lip as possible. Now drill one (1) 1/4-in. hole, using the cage as a guide. Insert one of the cage bolts in the hole with the head to the OUTSIDE of the feed trough. Install a flanged cage nut and hand tighten. Repeat this procedure for the remaining holes, checking each time that the cage is down as far as possible. Now tighten the bolts by holding the nuts and turning the heads. **DO NOT OVERTIGHTEN THE BOLTS ON THE FIBERGLASS**; tighten only until snug. Overtightening can damage the fiberglass.

Now slip the hopper, Item 3, completely into the cage and check that it is even on all sides. This can be done by measuring the distance between the hopper rim and the cage edge in several places. Then attach the cage tightener bolt and tighten until the hopper will no longer rotate easily. Lock the jam nut. Now drill four (4) holes through the hopper using the cage as a guide and a 1/4-in. bit. Secure the cage and hopper with the 1/4-in. bolts and nuts provided, with the heads to the outside. Tighten by holding the nuts and turning the heads as explained previously. DO NOT OVERTIGHTEN. Now install the feed sweep, Item 1, on the feed wheel. Slide the sweep over the wheel until it touches the hopper bottom. If it does not touch the bottom it is upside down; remove it and turn it over. Then raise the sweep until it just clears the hopper and tighten the set screw. Rotate the wheel to be certain the sweep does not rub; adjust as necessary.

Your Big Wheel Feeder is equipped with a feed gauge for ease of setting feed flow. Assemble Item 14 through 20 as follows. Locate Item 17 d and insert into one end of Item 17 c. Place the jam nut, Item 17 e, on the bolt and thread to expose approx. 3/4" of thread. Place the button plug, Item 20, into the large hole on the blow molded cone bottom. Note: If the cone is to be weighted, fill cone with sand or equilavent material and press button plug into place. Insert the 3/8" hex nut, Item 19, into the cylindrical cavity of the cone and hold into place. Install a flat washer, Item 17 f, on the bolt previously fastened to the cone strap, Item 17 c, and insert through top of the cone. Thread the bolt into the captured hex nut, Item 19, approximately 4 complete turns. Note: If the bolt is inserted into the cone support further than recommended, the cone assembly may be limited on adjustment. Tighten the jam nut, Item 17 e, snugly against the washer. Be careful not to over tighten.

Insert the Feed Gauge Assembly bolt, Item 17 b, into the opposite end of the cone strap, Item 17 c. Be sure the threaded portion of the bolt extends away from the center of the hanging strap. Place one of 3/8 " nuts on the bolt thread followed by the feed readout plate, Item 17 h. Ensure that the long leg of the feed readout plate is extended away from the cone strap, Item 17 c. Place another 3/8 " nut on the bolt and hand tighten against the feed readout plate.

Next install the crossbar, Item 17, on the top rim of the feeder hopper. **If fenceline adapters are used, align the crossbar with the divider rods in the trough divider, Item 6.** Using the crossbar ends as a guide, drill four (4) 3/16" diameter holes in the top rim. Secure the crossbar using the four (4) No.10 bolts and nuts provided.

Place the cone assembly into the feeder hopper, aligning the cone on the feed wheel axle. Insert the long bolt through the center hole located in the crossbar, Item 17. Locate the handle nut, Item 14, and thread onto the long bolt. Continue to tighten the handle nut until the cone assembly begins to move upward. Note: The cone assembly should be slightly above the feed sweep, without resting on it. Adjust the feed readout plate using the two (2) 3/8" nuts installed on the long bolt. Align the numeral 1 printed on the feed readout label with in the top of the crossbar. Tighten the 3/8" in nut against the feed readout plate and lock them into place. This setting will be the lowest recommended setting.

Place the bump bar agitators, Item 23, into the holes in the crossbar directly above the feed sweep, Item 1. The agitators should hang in the feeder hopper with the threaded portion of the agitator extending out the top of the cross bar. Install the Nylon lock nut and washer on the agitator bar and adjust according to the enclosed Bump Bar Installation Sheet, RLX-0518. The assembly of the Osborne Big Wheel feeder is now complete. **Finally, check the tightness of all bolts 24 hours after assembly to compensate for any relaxation in the fiberglass parts.**

Your RN4 Big Wheel finish feeder is now ready to be anchored to the pen floor, either in the middle or in the fenceline. Attach three anchor brackets, Item 21, to the cage rim, then to concrete floors using lead sleeves or to slotted or mesh floors using stainless steel T-bolts, Item 22. Order T-bolts separately. Special fenceline adapters are also available.

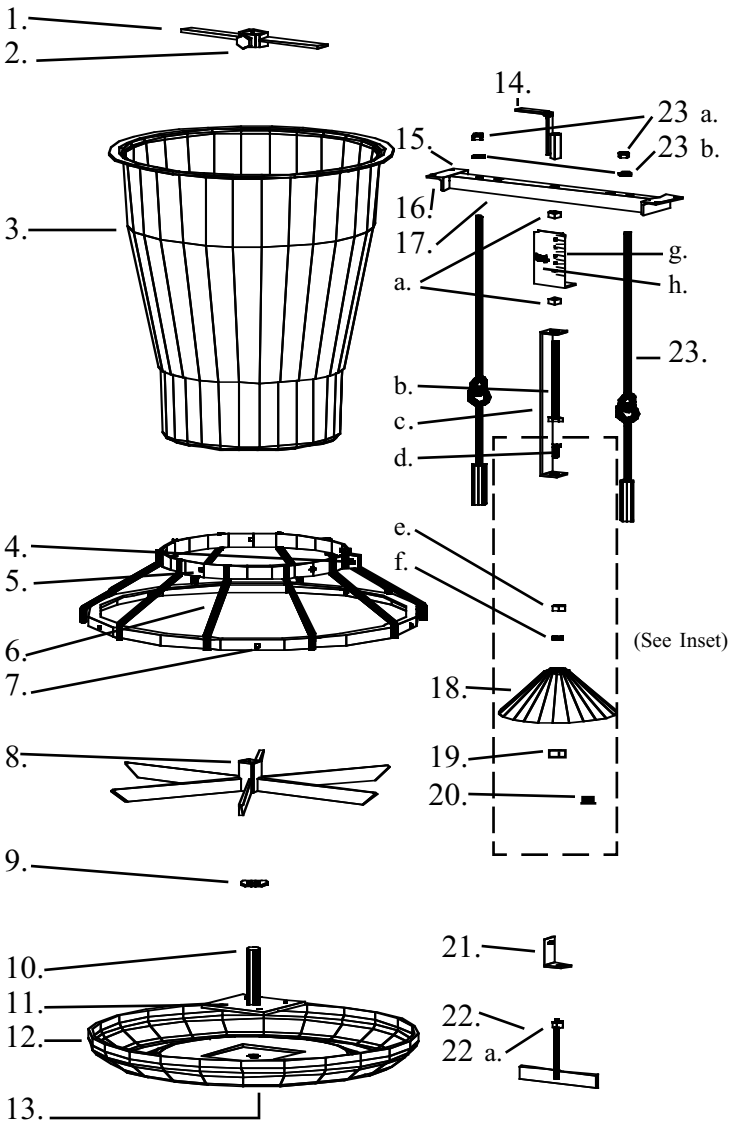
CARE AND MAINTENANCE

To train pigs to use the feeder, fill the hopper with feed, spin the feed wheel until feed appears in the trough, and then manually fill the trough with a feed scoop the first time. As the first troughful is eaten, pigs learn through play how the feed wheel works. For early-weaned pigs, a creep feeding program will also help. If no creep feeding precedes weaning, it may be necessary to repeat manual filling, before self-feeding begins.

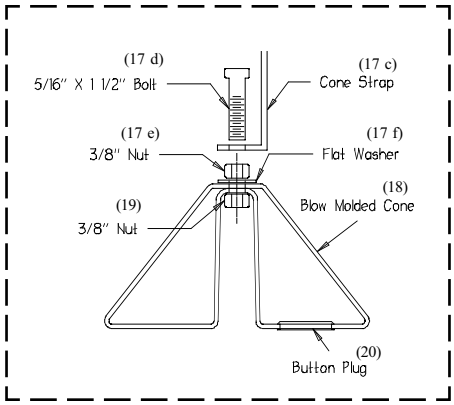
Your RN4 Big Wheel feeds up to 25 piglets from 10 days old to about 30 lbs.

Your Big Wheel hog feeder has been designed for maximum strength and durability. It does not require any special care. Because eventual deterioration or breakage is inevitable, the Big Wheel is designed so that repair is relatively quick and simple. Repair parts can be ordered through your nearest Osborne Dealer.

Big Wheel®
Parts Diagram and Listing
Model RN4- Round Nursery Confinement Feeder - 1.0 Bu.



Inset - Close-up of blow molded cone assembly.



Item No.	Part No.	Part Name
1.	KF-N30006	Feed Sweep
2.	RFB-1100	Set Screw
3.	KF-N40001	Hopper
4.	RFB-1501	Tightener Bolt
	RFB-1100	Tightener Nut
	RFN-1200	Tightener Jam Nut
5.	RFB-1200	Divider Bolts (5 ea.)
	RFN-1300	Divider Nuts (5 ea.)
6.	KF-N40003	Trough Divider Cage
7.	RFB-1200	Divider Bolts (5 ea.)
	RFN-1300	Divider Nuts (5 ea.)
8.	KF-N40004	Feed Wheel
9.	RFW-7001	Feed Wheel Washer
10.	KF-N30007	Axle
11.	RFB-0821	Axle Bolts (4 ea.)
12.	KF-N40002	Trough
13.	RFN-0851	Axle Flange Nuts (4 ea.)
14.	KF-F10017	Handle Nut
15.	RFB-0810	Crossbar Bolts (4 ea.)
16.	RFN-0811	Crossbar Nuts (4 ea.)
17.	KF-N40006	Crossbar
a.	RFN-3100	3/8" Full Hex Nuts (2 ea.)
b.	RFB-3910	Feed Gauge Assembly Bolt
c.	KF-N4004	Cone Strap
d.	RFB-3200	Bolt
e.	RFN-3500	Jam Hex Nut 3/8" (1 ea.)
f.	RFW-3100	Flat Washer
g.	RLX-0344	Label, Big Wheel Feed Rate
h.	KF-F10016	Feed Gauge Adjustment Plate
18.	RMX-1010	Blow Molded Cone
19.	RFN-3100	3/8" Full Hex Nut
20.	RFP-5120	1 1/8" Button Plug
21.	KF-N40007	Anchor Bracket
22.	FF-000TB1	T-Bolt S.S.
a.	RFN-2401	T-Bolt Lock Nut
23.	FF-00RN4B	Bump Bar Agitator
a.	RFN-1401	Bump Bar Lock Nut (2 ea.)
b.	RFW-2000	Bump Bar Washer (2 ea.)

OSBORNE INDUSTRIES INC.
BOX 388 • OSBORNE, KANSAS 67473
800-255-0316

Printed in the U.S.A.