

# OSBORNE

## Hog Feeders

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



# RF2 SERIES

RLX-0525\_C

## WEAN-TO-FINISH 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. 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 acknowledged 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 attempting assembly, refer to the Parts Diagram on the reverse side. Begin by locating Item 13, trough base. Insert Item 11, 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 preferred 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 12 & 14, provided. Using loctite on axle bolts and nuts is recommended. Next locate the feed wheel washer, Item 10, and the feed wheel, Item 9, 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 7, on the trough base. Make certain the cage is forced as far over the trough lip as possible. Now drill one (1) 5/16-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.

After the cage is installed, attach the cage tightener bolt and nut, but do not tighten. Drop the hopper bottom, Item 4, into place. Drop the feed sweep, Item 2, on the feed wheel. Slide the sweep over the feed 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.

Next slide the hopper top, Item 1, inside the hopper bottom as far as it will go. The flat area above the step in the hopper top should be completely inside the hopper bottom. Make sure the top is on straight and down as far as possible. Now tighten the cage tightener bolt until the hopper no longer will easily rotate within the cage. Lock the jam nut. Drill seven (7) holes through the hopper top and bottom, using the cage as a guide and a 5/16-in. bit. Fasten the hopper with the 5/16-in. bolts provided. Tighten by holding the nuts and turning the heads as explained previously. **DO NOT OVERTIGHTEN.**

Your Big Wheel Feeder is equipped with a feed gauge for ease of setting feed flow. Assemble Item 15 through 21 as follows. Locate Item 18 d and insert into one end of Item 18 c. Place the jam nut, Item 18 e, on the bolt and thread to expose approx. 3/4" of thread. Place the cone support washer, Item 20, and the cone support, Item 21, under the fiberglass cone, Item 19. Place the washer, Item 18 f, on top of the fiberglass cone. Insert the bolt previously installed in the cone strap, Item 18 c, through the washer, fiberglass cone, cone support washer and into the cone support. Thread the bolt into the cone support 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 18 f, snugly against the washer. Be careful not to over tighten.

Insert the Feed Gauge Assembly bolt, Item 18 b, into the opposite end of the cone strap, Item 18 c. Be sure the threaded portion of the bolt extends away from the center of the hanging strap. Place one of 3/8" nut on the bolt thread followed by the feed readout plate, Item 18 h. Ensure that the long leg of the feed readout plate is extended away from the cone strap, Item 18 c. Place another 3/8" nut on the bolt and hand tighten against the feed readout plate.

Next install the crossbar, Item 18, on the top rim of the feeder hopper. **If fenceline adapters are used, align the crossbar directly above the divider bars with the slotted holes in the trough divider, Item 7.** 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 support on the feed wheel axle. Insert the long bolt through the center hole located in the crossbar, Item 18. Locate the handle nut, Item 15, 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 even with the top of the crossbar. Tighten the 3/8" 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 24, into the holes in the crossbar directly above the feed sweep, Item 2. 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. Adjust according to the enclosed Bump Bar Installation Instructions, 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 RF2 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 22, to the cage rim, then to concrete floors using lead sleeves or to slotted or mesh floors using stainless steel T-bolts, Item 23. Order T-bolts and brackets separately. Special fenceline adapters are also available.

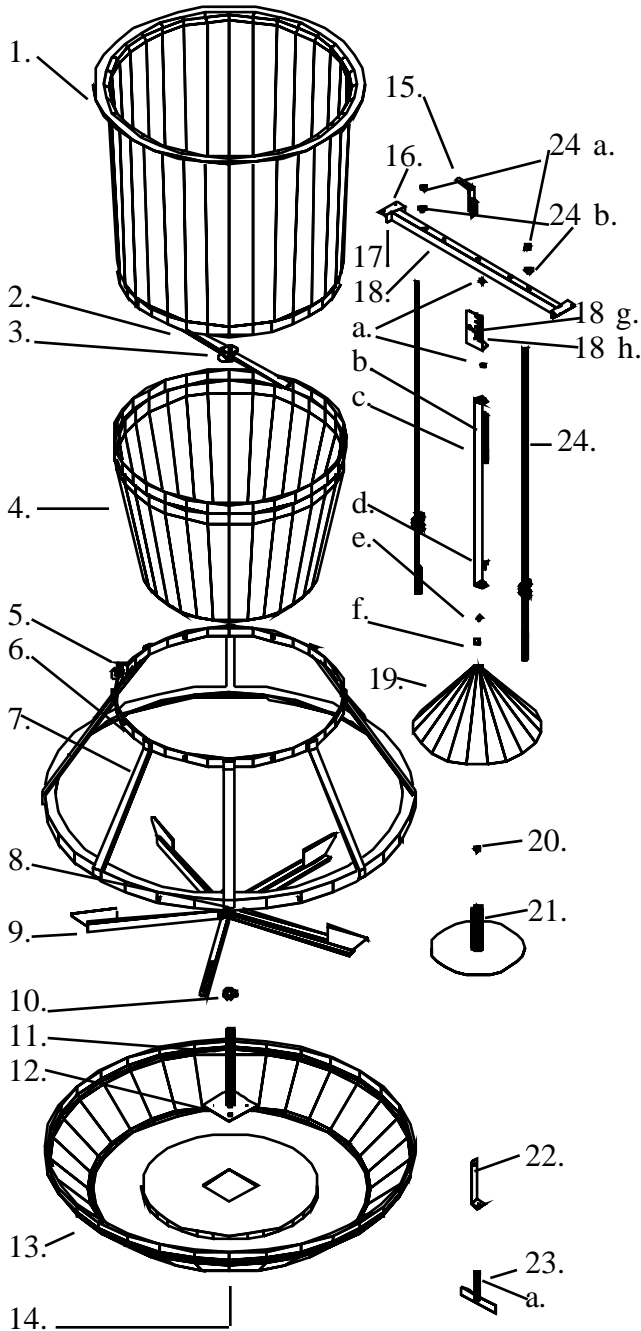
#### CARE AND MAINTENANCE

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.

Your RF2 Big Wheel feeds up to 60 animals from 10 lbs. to market weight. 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 RF2- Round Wean/Finish Confinement Feeder - 4.5 Bu.



Item No.	Part No.	Part Name
1.	KF-N10002	Hopper top
2.	KF-N10007	Feed Sweep
3.	RFB-1100	Set Screw
4.	KF-N10001	Hopper Bottom
5.	RFB-2150	Tightener Bolt
	RFN-2100	Tightener Nut
	RFN-2200	Tightener Jam Nut
6.	RFB-2050	Divider Bolts (7 ea.)
	RFN-2300	Divider Nuts (7 ea.)
7.	KF-F20002	Trough Divider Cage
8.	RFB-2050	Divider Bolts (8 ea.)
	RFN-2300	Divider Nuts (8 ea.)
9.	KF-F20003	Feed Wheel
10.	RFW-7001	Feed Wheel Washer
11.	KF-N10008	Axle Assembly
12.	RFB-0821	Axle Bolts (4 ea.)
13.	KF-F20001	Trough
14.	RFN-0851	Axle Flange Nuts (4 ea.)
15.	KF-F10017	Handle Nut
16.	RFB-0810	Crossbar Bolts (4 ea.)
17.	RFN-0811	Crossbar Nuts (4 ea.)
18.	KF-N10011	Crossbar
a.	RFN-3100	Full Hex Nuts (2 ea.)
b.	RFB-3910	Feed Gauge Assembly Bolt
c.	KF-N10013	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
19.	KF-N10004	Cone
20.	RFW-2000	Cone Support Washer
21.	KF-N10009	Cone Support
22.	FF-00RF2E	Anchor Bracket
23.	FF-000TB1	T-Bolt S.S.
a.	RFN-2401	T-Bolt Lock Nut
24.	FF-00RN1B	Bump Bar Agitator
a.	RFN-1401	Bump Bar Lock Nut (2 ea.)
b.	RFW-2000	Bump Bar Washer (2 ea.)

