

# HOW TO BUILD UNIVERSAL FEEDERS

Building the feeders is quite simple as long as follow the steps outlined below exactly. Any steps that are missed will reduce the strength and efficiency of the feeder and void warranty. Feeders with flat lids, when placing the lid use steps 80-84 and 77-78, NOT 67-71.



**STEP 1:** Lay posts out on each corner (Left and right) and base onto frame and lid hinges.



**STEP 2:** Connect post to frame. Ensure flat washer is put in front of nut.



**STEP 3:** Loosely tighten nuts to allow some movement in post.



**STEP 4:** Connect ends to frame.



**STEP 5:** Ensure post and edge of end are fitted with no gap. Tek screw ends fully to posts.



**STEP 6:** Diagram of cage nuts.



**STEP 7:** Place cage nuts into base.



**STEP 8:** Connect main support to ends.



**STEP 9:** Connecting main support.



**STEP 10:** The ends are now more secure.



**STEP 11:** Fit base to ends. Line up holes.



**STEP 12:** Tek screw to ends.



**STEP 13:** Secure base to frame and ends.



**STEP 14:** Ensure all screws are fitted. (If there is a hole it needs screwing).



**STEP 15:** Fit sight glasses with small screws and nuts provided.



**STEP 16:** Inside of end with sight glass fitted.



**STEP 17:** Secure angle piece to base.



**STEP 18:**



**STEP 19:** Fitting angle piece.



**STEP 20:** The two holes in the base are for the angle piece.



**STEP 21:** Fit the seven straps to base. Holes located at the top of the bend of the base.



**STEP 22:** Adjuster bracket (Left and right).



**STEP 23:** Adjuster fitted (3 holes in end). Use 8mm bolts and nuts.



**STEP 24:** Selastic gap between the base and the end (Do not selastic below adjuster bracket). Tighten.



**STEP 25:** Slide dividers through slot in end.



**STEP 26:** Divider in position.



**STEP 27:** Tek screw to end.



**STEP 28:** Attaching divider to end.



**STEP 29:** Both dividers in place. Ensure all holes fitted with tek screws.



**STEP 30:** Attach straps that are screwed into base to divider. Holes are to be lined up.



**STEP 31:** Attaching straps to bottom of dividers.



**STEP 32:** Two screws per strap.



**STEP 33:** End result (Be sure not to miss any holes).



**STEP 34:** If divider needs straightening so straps line up, always hammer on corners.



**STEP 35:** Attach supports to divider. Plate is to go onto the outside.



**STEP 36:** Attach nuts on the inside of the feeder.



**STEP 37:** Finished look of Large and Extra-large feeders (Medium has only one top support).



**STEP 38:** Attach lid end to lid RHS end.



**STEP 39:** Another view.



**STEP 40:** Pull down firmly and screw.



**STEP 41:** Hold both ends firmly.



**STEP 42:** Always remember there is a left and a right side, so fit lid ends alternatively to lid RHS hinge.



**STEP 43:** Attach lid hinge to end, one washer between bolt and RHS, three washers between RHS and end.



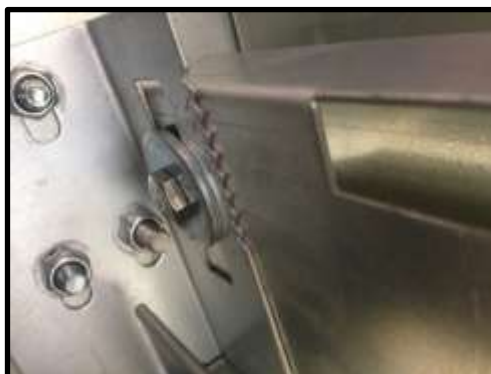
**STEP 44:** Put nut on inside of the feeder.



**STEP 45:** Tighten so lid hinge is firm but moves freely.



**STEP 46:** Attach cage nuts to upper adjusters. One each end (Note which way the cage nut is attached).



**STEP 47:** Attach upper adjuster to adjuster bracket using 8mm bolt and large washer.



**STEP 48:** Attach bottom adjuster (3 slots in adjuster to the base). Bolt then large washer.



**STEP 49:** Set adjusters so upper adjuster 15mm from bottom to base, 20mm from lower adjuster to upper. This will give approx.. 300gm/day.



**STEP 50:** Attach bottom adjuster (Has 3 slots).



**STEP 51:** If attaching ad-lib pieces line up with the two holes on the ends.



**STEP 52:** Silicon the end.



**STEP 53:** Attach the end extension.



**STEP 54:** Screw inside out.



**STEP 55:** Inside view of finished product.



**STEP 56:** Outside view of finished product.



**STEP 57:** Silicon the divider to the end.



**STEP 58:** Silicon the end extension ready for sides..



**STEP 59:** Be sure to silicon all gaps.



**STEP 60:** Feeder is now ready for sides.



**STEP 61:** Always tek screw top of the flat side first.



**STEP 62:** Second tek screw to be the second hole from the end (Do not do the hole at the end first).



**STEP 63:** Tek screw the bottom bend then tek screw the side completely to feeder (Do not miss any holes).



**STEP 64:** Place one screw up top of side connecting to end.



**STEP 65:** Tek screw second hole from the end. Do not do first hole first.



**STEP 66:** Tek screw all remaining holes ensuring none are missed.



**STEP 67:** Place lid onto feeder.



**STEP 68:** Connect lid hinge to feeder.



**STEP 69:** Connect lid hinge to feeder.



**STEP 70:** Top view of connection.



**STEP 71:** Ensure all screws are fitted to holes.



**STEP 72:** Attach the lid handles to the lid using holes provided in the lid.



**STEP 73:** Sweep the base and all areas of feeder of steel filings.



**STEP 74:** Ensure completely clean as any filings left will rust.



**STEP 75:** Tighten fully bolts and nuts connecting posts to base. Sealastic the bottom of the posts to the frame. Ensure water tight.



**STEP 76:** Attach pad bolt to top of the side (Use second holes from top, the bottom hole to be drilled).



**STEP 77:** Pad bolt attached.



**STEP 78:** If only attaching one pad bolt place tek screws in holes not used on the other side.



**STEP 79:** Sealastic all areas that are exposed to water.



**STEP 80:** For flat lids attach lid hinge.



**STEP 81:** Attach bridging piece to RHS hinge.



**STEP 82:** Place lid onto feeder.



**STEP 83:** Place bridging piece under lid.



**STEP 84:** Fully tek screwed. Top tek screws must be the shorter screws. Side screws longer tek screws. Attach the 2 lid handles in the holes provided in lid.