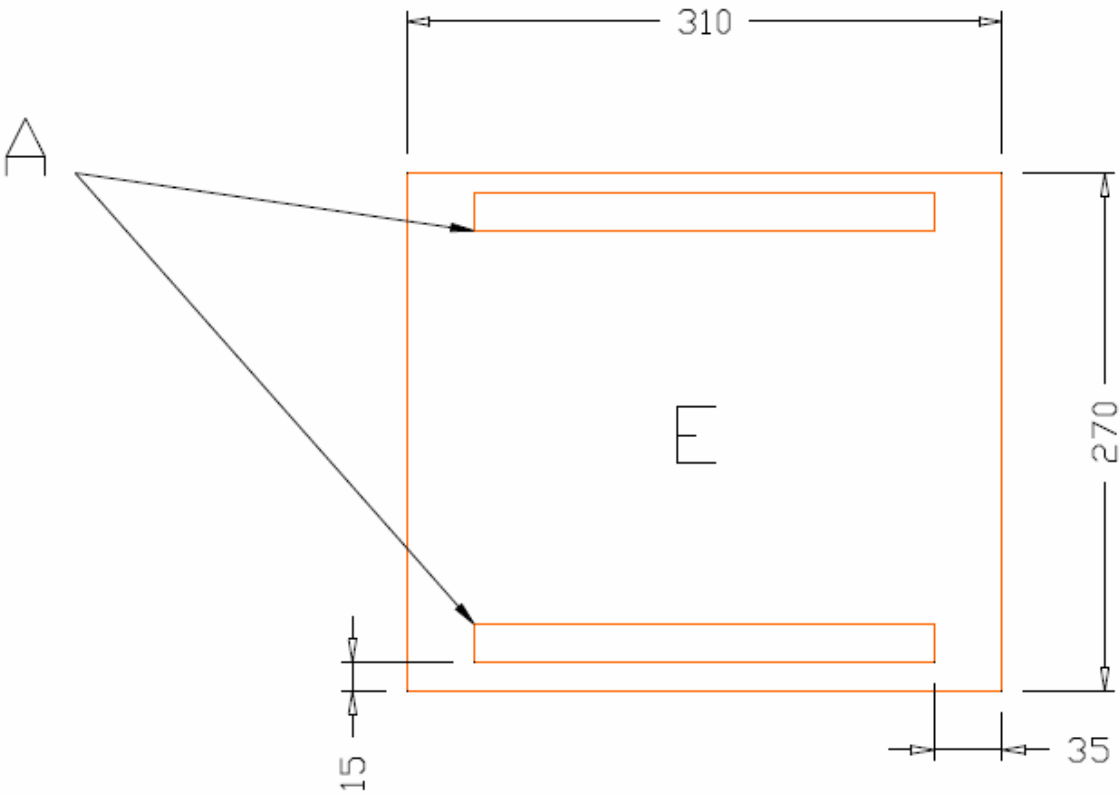
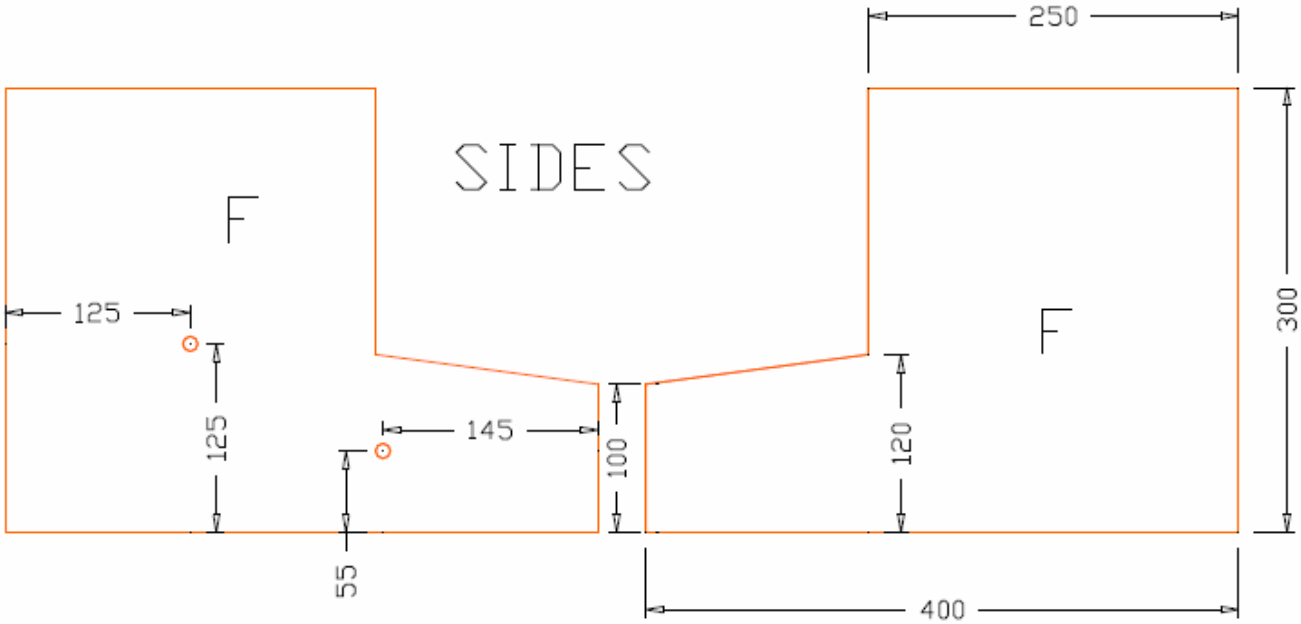
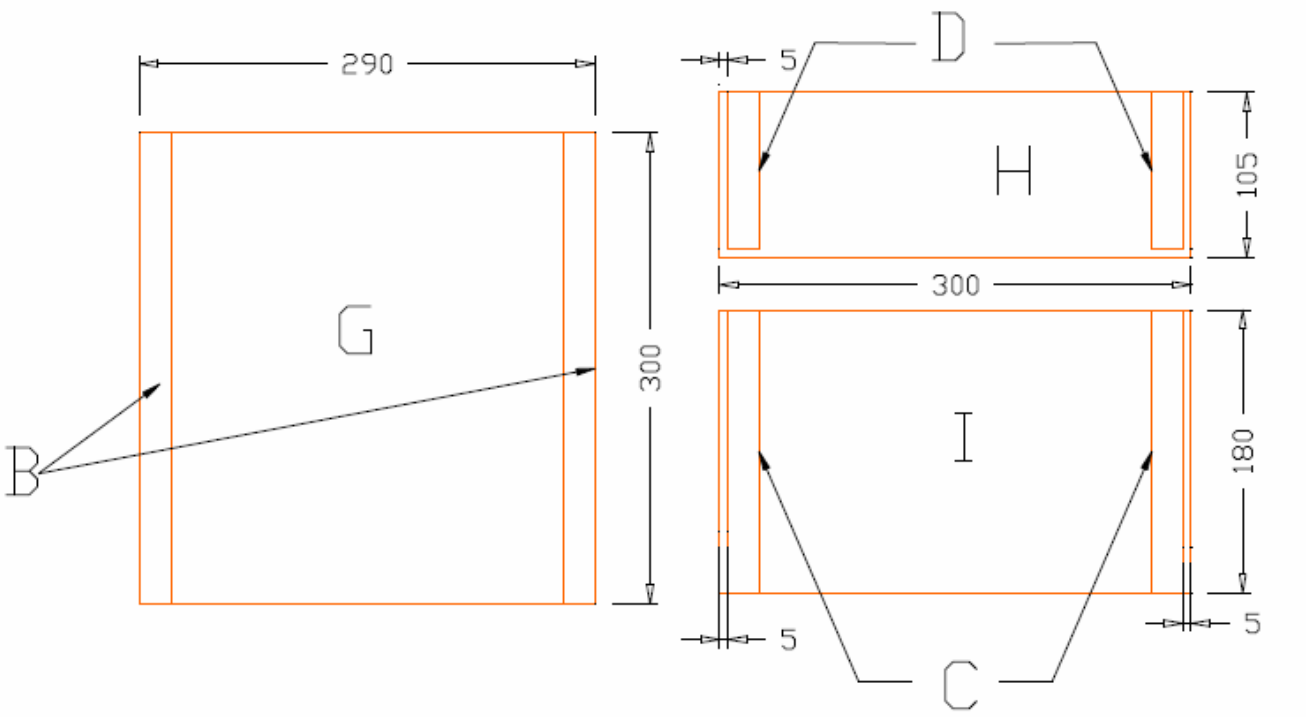
Automatic Poultry Feeder
Vermin Free!

Design Plans

Components	Quantity	Dim.	Comments
A	**2**	240 x 20 x 20	Use the suggested cross section of 20 x 20 or similar
B	**2**	300 x 20 x 20	Use the suggested cross section of 20 x 20 or similar
C	**2**	180 x 20 x 20	Use the suggested cross section of 20 x 20 or similar
D	**2**	100 x 20 x 20	Use the suggested cross section of 20 x 20 or similar
E	**1**	310 x 270 x 5	Attach parts A as shown to make top/lid
F	**2**	400 x 300 x 5	Cut in L shape and mark holes as shown.
G	**1**	290 x 300 x 5	Attach parts B as shown to make back
H	**1**	300 x 105 x 5	Attach parts D as shown to make bottom front
I	**1**	300 x 180 x 5	Attach parts C as shown to make top front
J	**1**	300 x 400 x 5	Use as floor


310
E
270
15
35


250
SIDES
F
F
125
125
145
100
120
300
55
400


290
5
D
105
H
300
G
300
I
180
B
5
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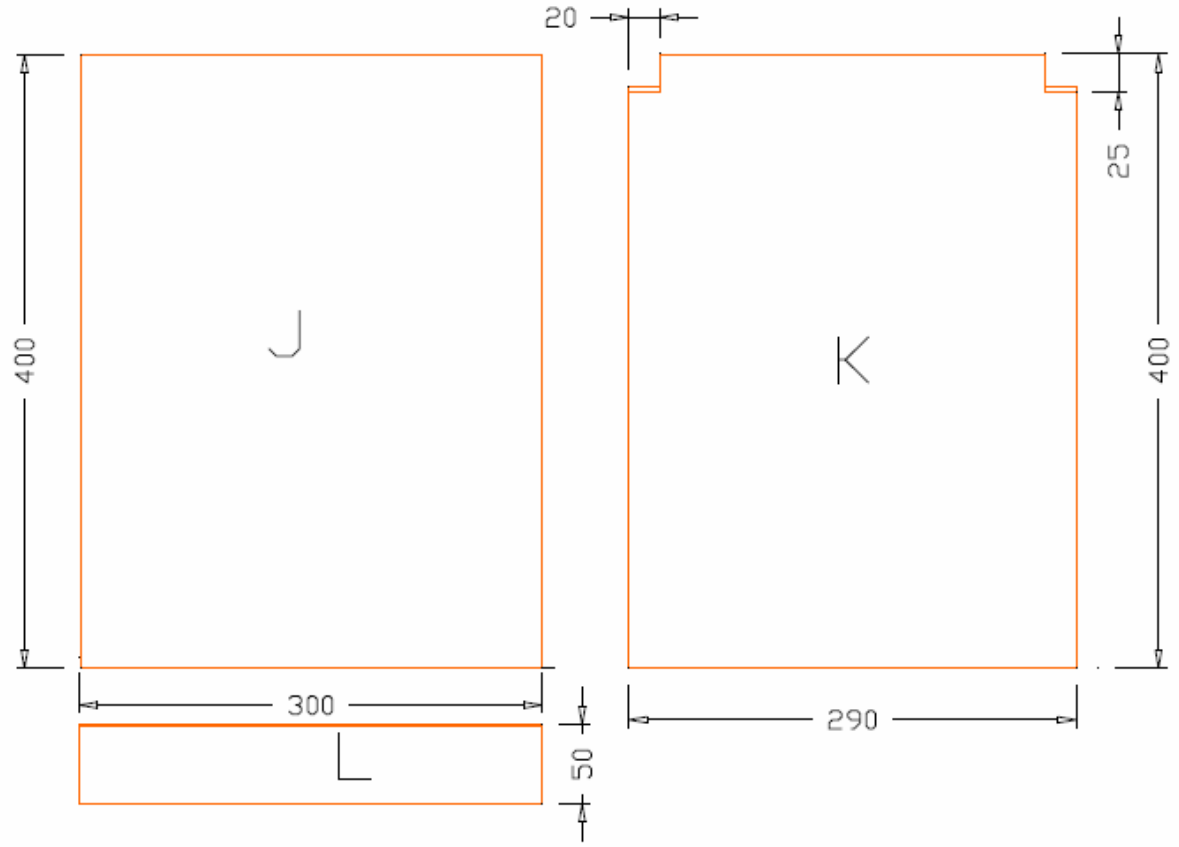
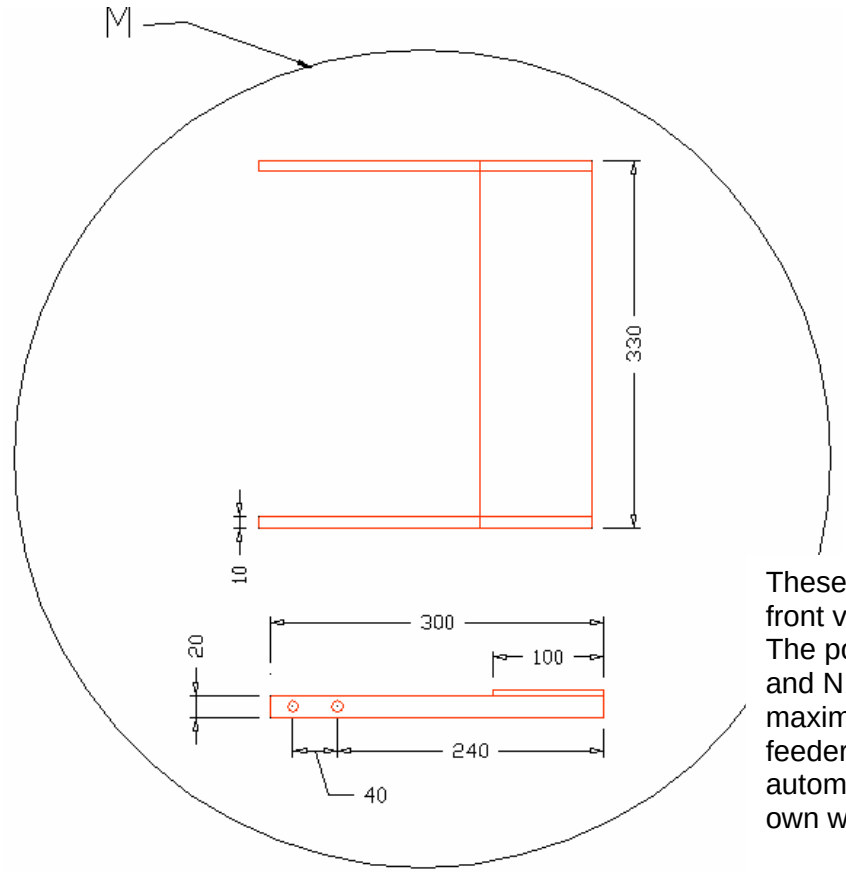
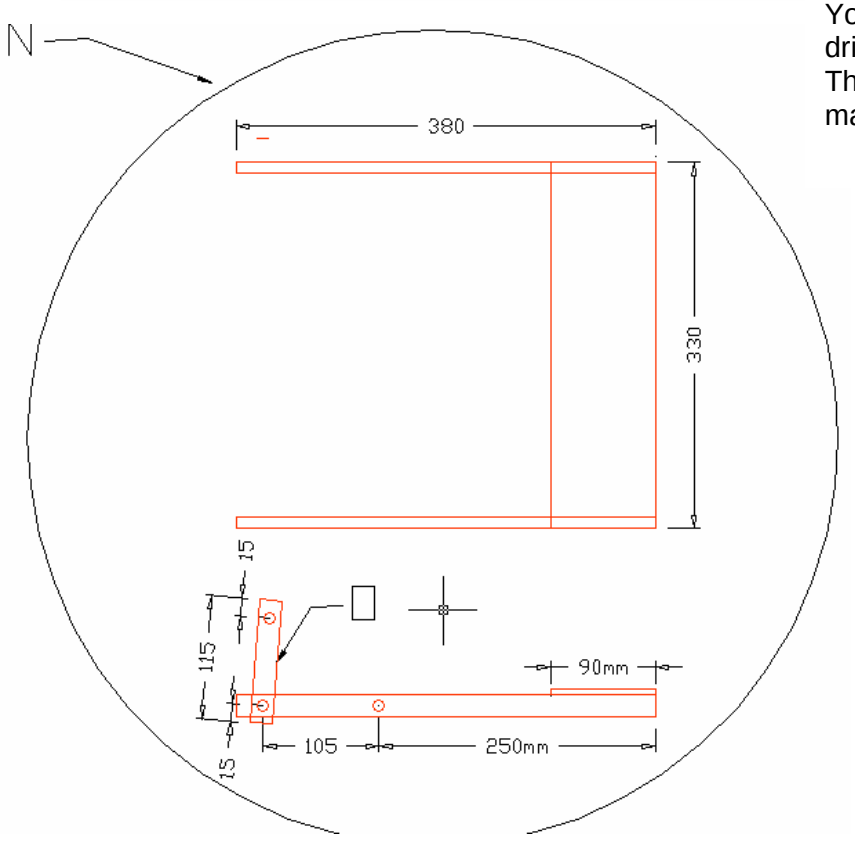
C

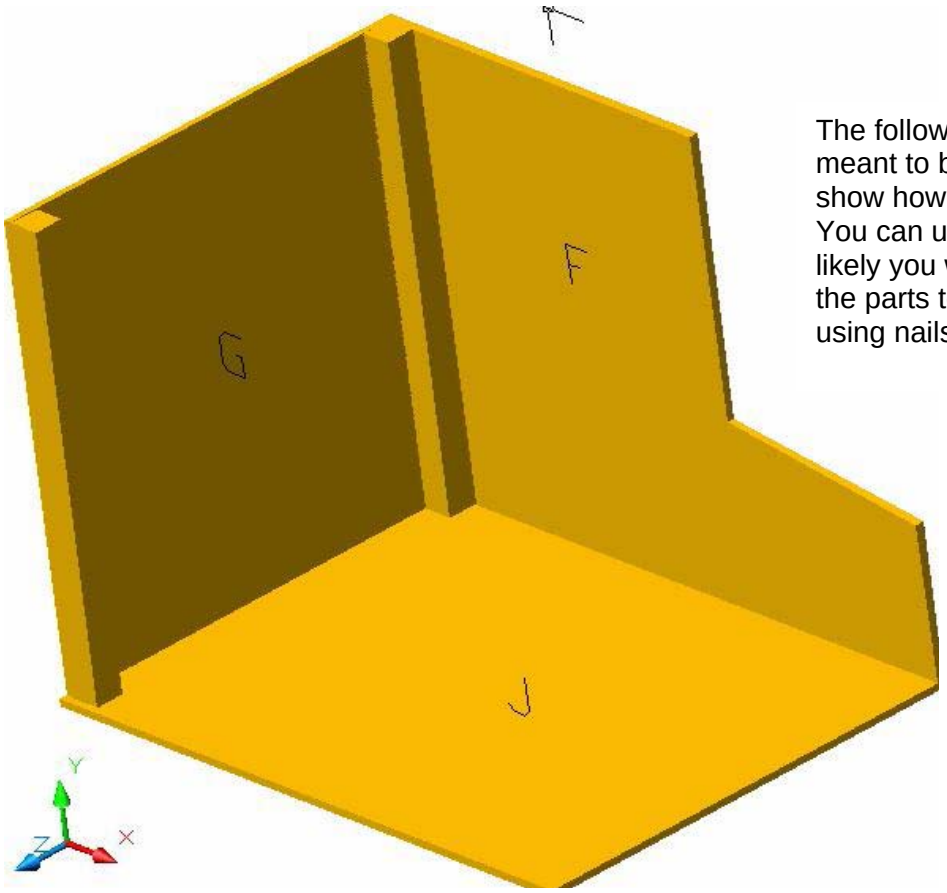

20
25
400
J
K
400
300
290
50
L



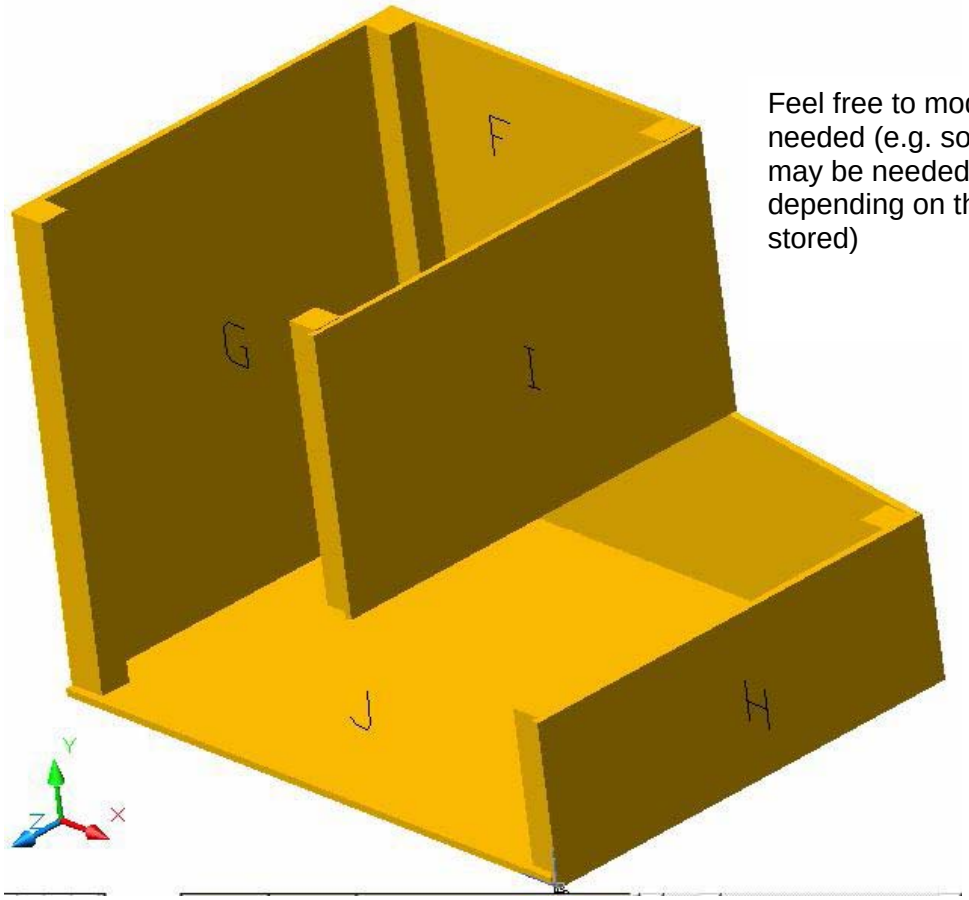


These diagrams show the top and front views of moving parts M and N. The position of holes on parts F, M and N have been selected to maximise the bird weight (to open the feeder cover) and to allow the automatic closing of the cover by its own weight.

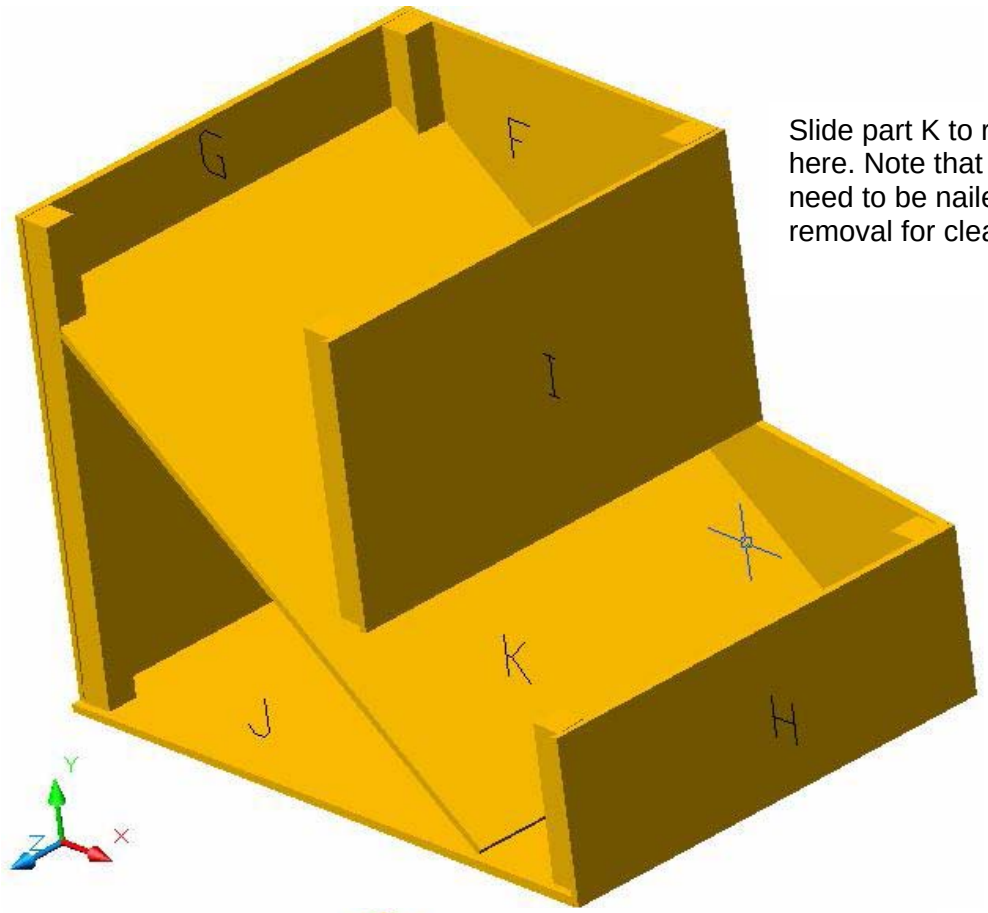
You may like to wait until the end to drill the holes on the moving parts. These distances should work but may need some adjustments.



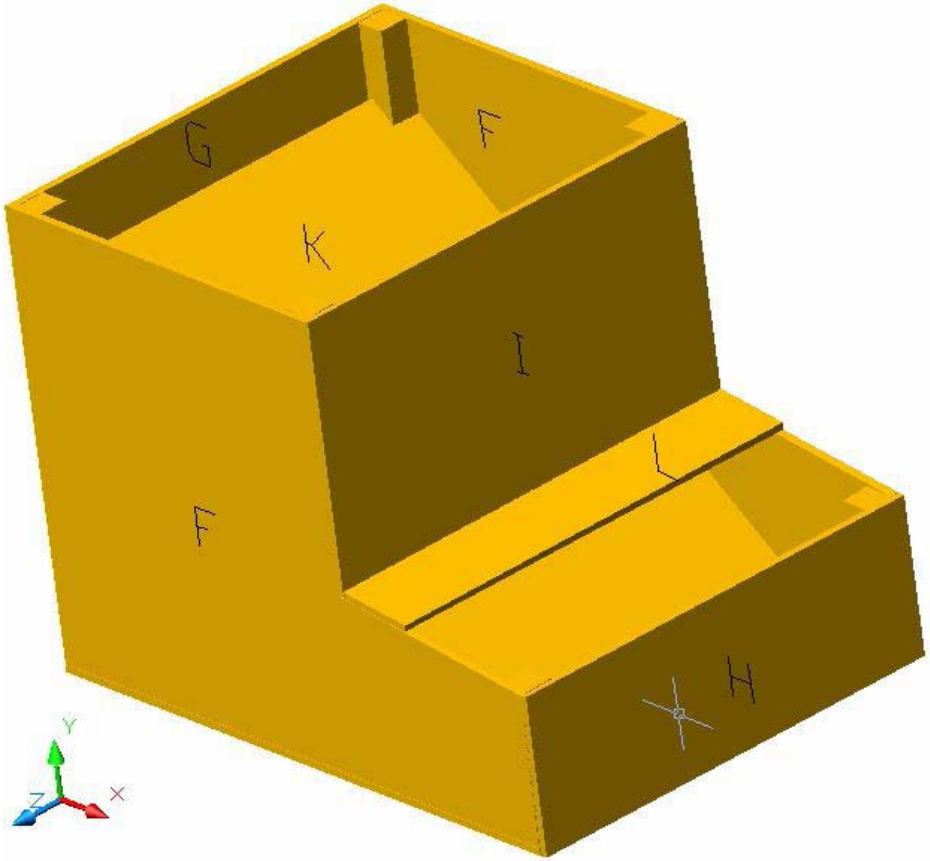
The following pictures are not meant to be steps but intend to show how all parts fit together. You can use wood glue but most likely you will need nails to hold the parts together. I suggest using nails of 3/4 or 5/8 inch

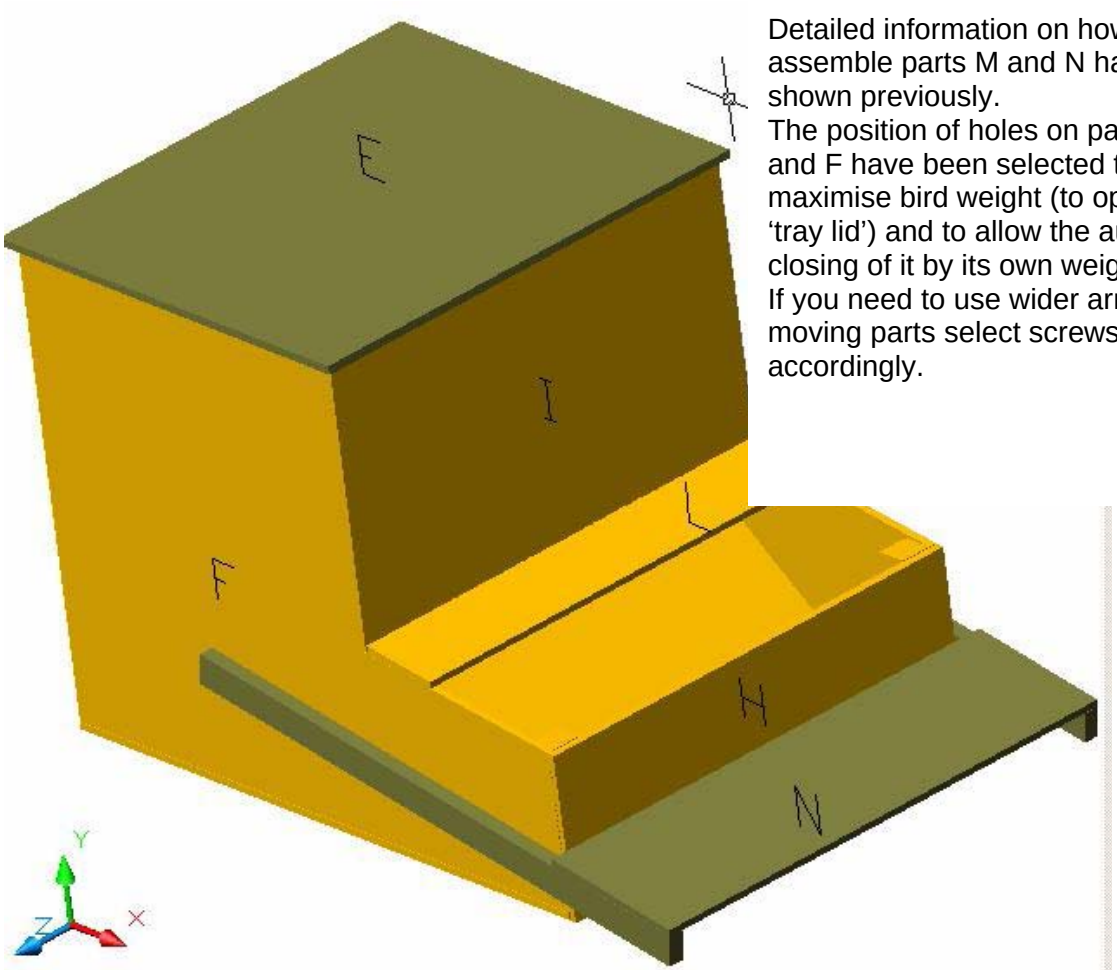


Feel free to modify this design if needed (e.g. some reinforcement may be needed on the bottom depending on the amount of food stored)

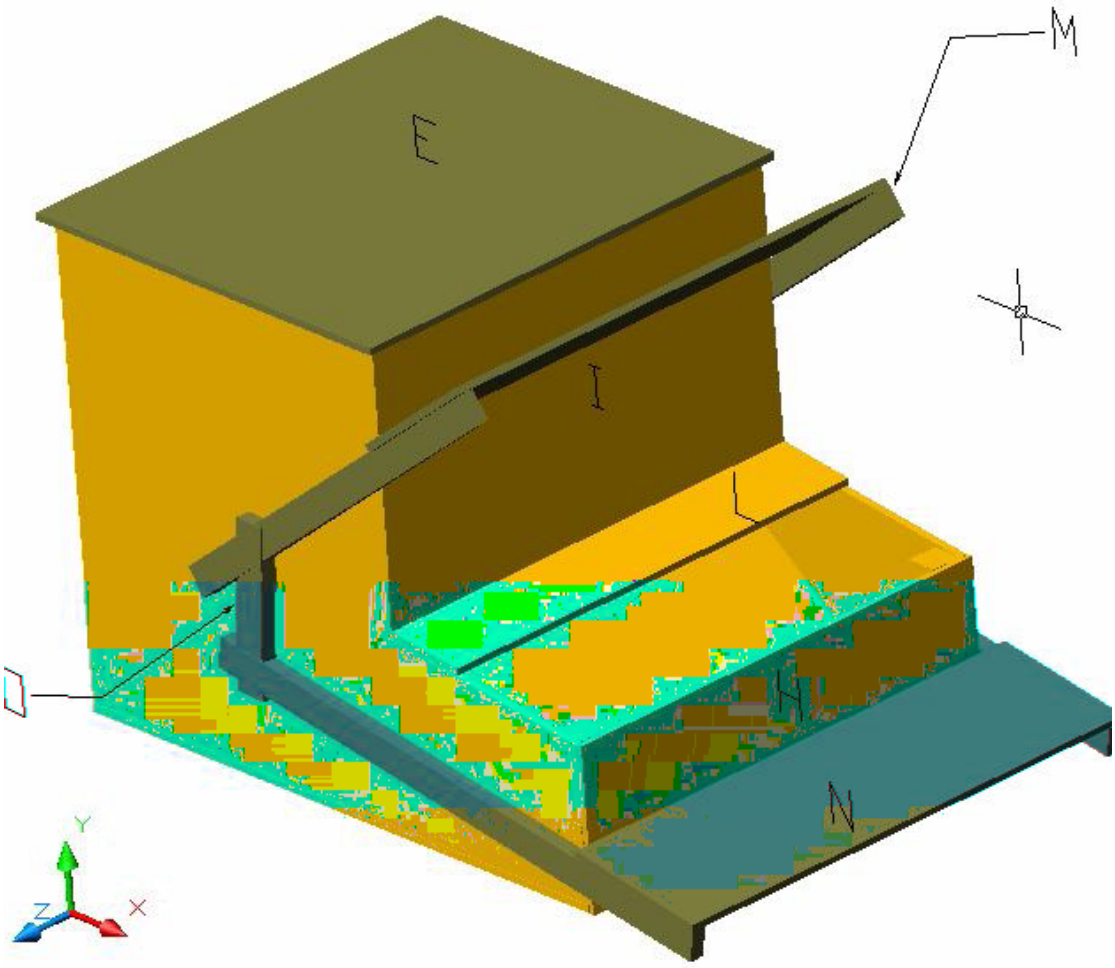


Slide part K to rest of G as shown here. Note that this part does not need to be nailed. This will allow removal for cleaning if needed.

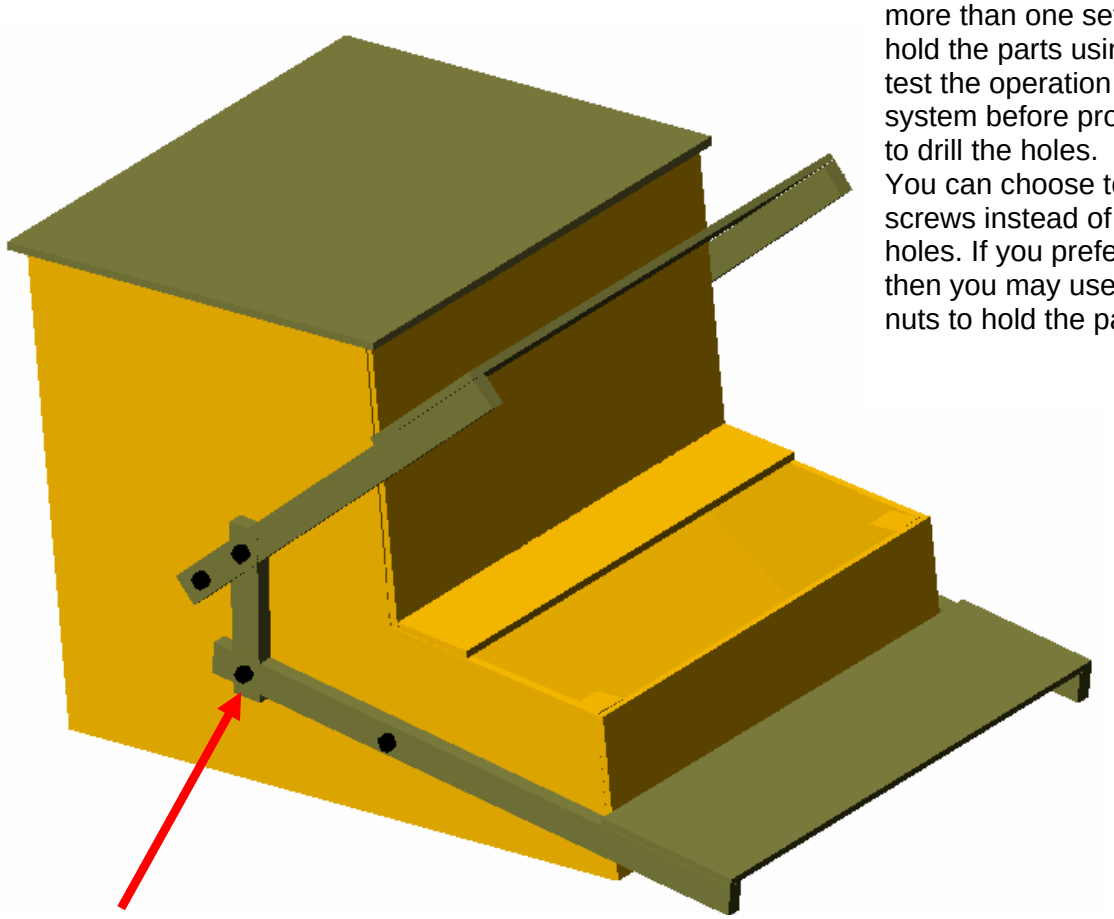




Detailed information on how to assemble parts M and N has been shown previously.
The position of holes on parts M, N and F have been selected to maximise bird weight (to open the 'tray lid') and to allow the automatic closing of it by its own weight.
If you need to use wider arms for the moving parts select screws or bolts accordingly.



You can make holes for more than one setting, or hold the parts using nails to test the operation of the system before proceeding to drill the holes.
You can choose to use screws instead of drilling holes. If you prefer drilling, then you may use bolts and nuts to hold the parts.



Bolts or Screws

Suggested screws: Wood, 30mm
Suggested Bolts/Nuts/washer: M6 x 35
Washers (between moving parts and wall F)

I selected all distances based on a computer simulation and based on the original product shown on
this web site. As this is a casual untested representation of the original design, feedback is
welcomed. If someone actually builds their own, I would love to see a photo.

THE END
Hope I did not make this too complicated to understand.

Jonez
BYP member.