PO-036 Dedicated clean egg-packing workbench

Provide a fixed clean work surface and a low empty-carton shelf, separate from manure and wash tools.

Controlling dimensions: US inches and feet. Metric equivalents are references. Original editorial design; no physical build, animal trial or load certification is claimed.

Before marking and cutting

Read every step and identify the installed orientation. Make the component off-site with birds excluded.

Measure the actual receiving space, chosen commercial accessories and access route. Stop if the example does not fit; changing only one member can invalidate the assembly.

Reject split, warped, moldy or chemically contaminated stock. Keep exposed mesh cut ends and all sharp fasteners inaccessible to birds.

The drawing dimensions control; illustrations are not full-size templates. Allow a saw kerf between parts when laying out stock.

Use limits

No person may stand or sit on this component. No tested load rating is claimed.

A site-specific safe location and supervision are required; remove it if birds become trapped, peck damaged material, or cannot use their normal feed, water, shelter and escape routes.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
A Worktop	1	42 × 24 × 3/4 in 1066.8 × 609.6 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
B Leg	4	32 1/4 × 3 1/2 × 1 1/2 in 819.15 × 88.9 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
C Front/rear apron	2	42 × 3 1/2 × 1 1/2 in 1066.8 × 88.9 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
D Between-apron end tie	2	21 × 3 1/2 × 1 1/2 in 533.4 × 88.9 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
E Rear racking panel	1	39 × 12 × 1/2 in 990.6 × 304.8 × 12.7 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
F Lower shelf	1	32 × 17 1/2 × 3/4 in 812.8 × 444.5 × 19.05 mm	Exterior-bond plywood, measured actual thickness. Square ends; remove splinters.
G Lower-shelf support	2	18 × 1 1/2 × 1 1/2 in 457.2 × 38.1 × 38.1 mm	Untreated sound straight softwood. Square ends; remove splinters.
H Shelf cleat	2	17 1/2 × 3/4 × 3/4 in 444.5 × 19.05 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

8 × #10 exterior wood screw 3 in (76.2 mm). Apron ring [N1]

8 × 1/4 in diameter × 4 in corrosion-resistant through-bolt 4 in (101.6 mm). Legs to aprons. Use two suitable washers and a locking nut per bolt unless specified; cap or trim exposed threads after verifying full nut engagement.

8 × #10 exterior wood screw 3 in (76.2 mm). G supports to legs [N1]

6 × #8 corrosion-resistant exterior wood screw 1 1/4 in (31.75 mm). Shelf to additional cleats [N1]

8 × #8 corrosion-resistant exterior wood screw 1 1/4 in (31.75 mm). Racking panel [N1]

8 × #8 corrosion-resistant exterior wood screw 1 1/4 in (31.75 mm). H shelf cleats [N1]

12 × #8 corrosion-resistant exterior wood screw 1 3/4 in (44.45 mm). Top [N1]

N1 applies to every entry marked [N1]: Use compatible coatings/metals and the maker's pilot-hole guidance; do not substitute drywall screws.

Tools

Tape measure, square and pencil; Saw appropriate to material and work supports; Drill/driver, countersink and pilot bits selected for the screws; Clamps, sanding block and eye/hearing protection; dust control appropriate to the material

Primary context and design record

Context references; not design endorsements or certifications.

S2 · Build a Clean Routine · USDA APHIS Defend the Flock

Assembly and first checks

The large drawing plates follow the instructions in this same PDF. Read the cut list and match part IDs before cutting. Print with automatic page orientation; use written dimensions rather than measuring the printed drawing.

01 Select a dry level clean-side room. This workbench is for egg packing in closed cartons; it is not a stool, food-processing sink or a sanitizing appliance.

02 Cut A 42 × 24 in from 3/4 in ply; cut four B legs 32 1/4 in from actual 1 1/2 × 3 1/2 in stock, and C aprons 42 in long.

03 Cut two D end ties 21 in long, actual 1 1/2 × 3 1/2 in. Clamp C/D into a 42 × 24 in top ring, with D between the aprons.

04 Drive two #10 × 3 in screws through C into each D end, eight total. Keep the ring square before introducing the legs.

05 Place B inside the ring, left leg x = 1 1/2–5 in and right x = 37–40 1/2 in; front/rear faces occupy y = 1 1/2–3 and 21–22 1/2 in. Clamp all tops flush at 32 1/4 in.

06 Through-bolt each leg to its adjacent apron with two 1/4 × 4 in bolts, washers and locking nuts. Stagger the pair vertically by 1 1/2 in and keep holes centered on the leg width.

07 Cut G shelf supports to 18 in from 1 1/2 in square stock. Fit between the front/rear leg inner faces at y = 3–21 in, with their top faces at z = 8 in, using two #10 × 3 in screws into each leg contact.

08 Cut F 32 × 17 1/2 in and rest it between G at x = 5–37 in, y = 3 1/4–20 3/4 in. Fit H 17 1/2 in cleats along the inside G faces with eight 1 1/4 in screws total, then screw F to those cleats with three 1 1/4 in screws per side.

09 Cut E rear racking panel 39 × 12 × 1/2 in. Attach at x = 1 1/2–40 1/2 in, directly to the back-leg rear faces at y = 22 1/2 in, from z = 16 3/4 to 28 3/4 in, with four 1 1/4 in screws into each back leg, eight total, centered at x = 3 1/4 and 38 3/4 in. All holes land in solid legs.

10 Place A over the frame, mark leg/apron positions and attach with twelve #8 × 1 3/4 in screws into aprons. Keep heads flush and away from carton contact.

11 Fit a removable washable work mat with no loose curling edge. With the bench empty, check floor contact, diagonals, capped bolt ends and absence of rocking; stop if the structure racks.

12 Use only for light clean egg-packing supplies; keep cartons closed and clean. Inspect joints and the underside regularly and keep dirty tools, feed dust and chemicals elsewhere.

Acceptance and intermediate checks

Top ring is 42 × 24 in; actual legs are inside, not between the end ties.

Shelf support/cleats must contact F; front-to-rear panel/leg contacts are checked before fastening.

Top is 33 in above the floor, level and smooth; no person may stand or sit on it.

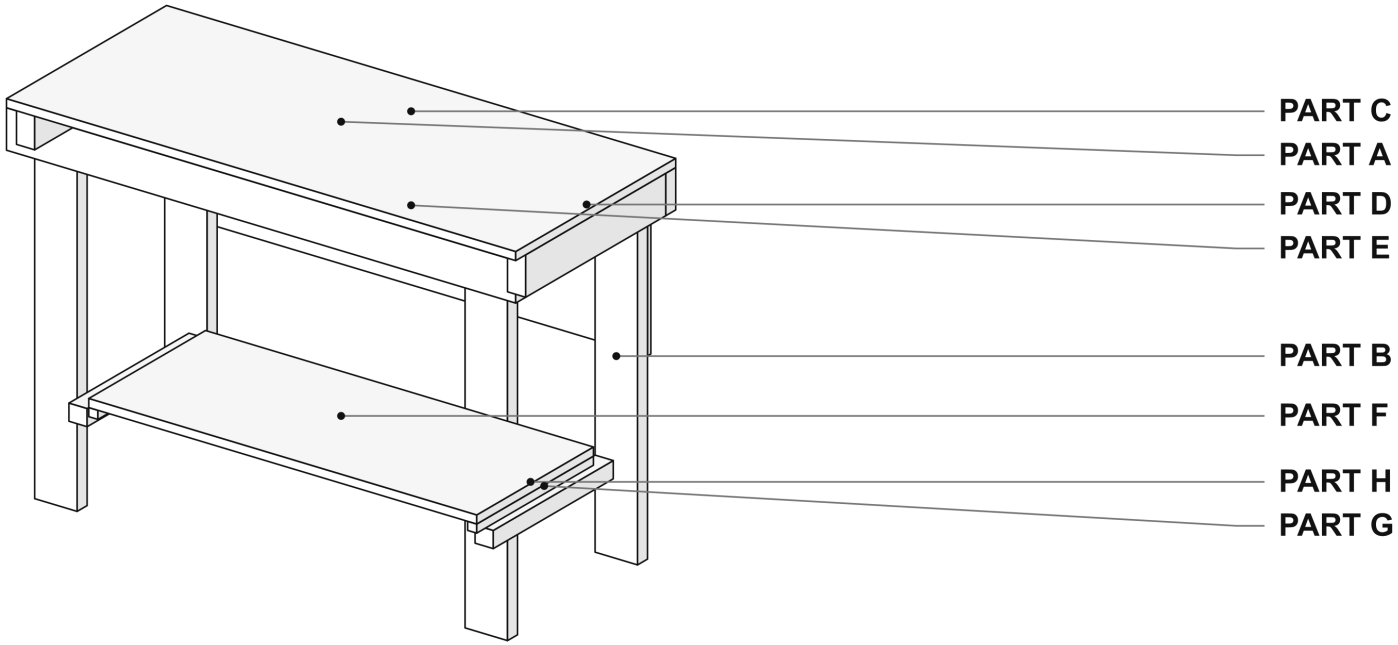
No payload, food-contact certification or floor/anchor design is inferred.

Cleaning and maintenance

Inspect before each use for splits, loose joints, protruding points and trapped debris. Remove accumulated litter or manure promptly. When cleaning is needed, move birds away, remove debris first, wash and use only a suitable label-directed product if disinfection is indicated; let the item dry before return. Recheck the fit after seasonal wood movement. Replace cracked panels, rusted fasteners or frayed liners instead of concealing damage. Sand accessible edges to a small smooth radius. Use a removable washable contact liner where specified. Any optional coating must be suitable for the intended animal-equipment use and fully cured according to its label before installation. Porous wood is not represented as a disinfectable food-contact surface.

PO-036 | ASSEMBLY GEOMETRY

Dedicated clean egg-packing workbench



Displayed schematic envelope (x × y × z):

42 in × 24 in × 33 in / 1066.8 × 609.6 × 838.2 mm

Part letters refer to the cut list; standard hardware is specified in the assembly steps.

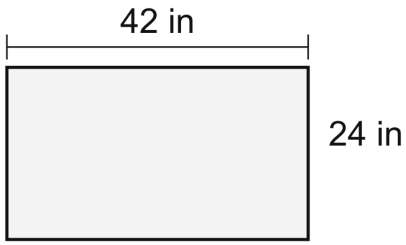
Original black/white vector schematic; dimensions control. Untested editorial draft.

x = left/right; y = front/rear; z = height. Purchased hardware is not falsely modeled as engineered parts.

PO-036 | DIMENSIONED PARTS 1 OF 2

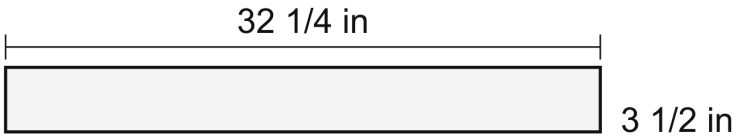
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Worktop ×1



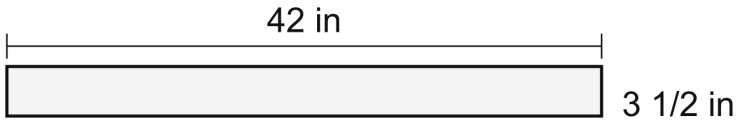
Metric face: 1066.8 × 609.6 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

B Leg ×4



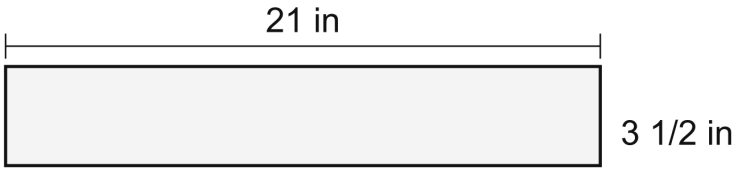
Metric face: 819.1 × 88.9 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

C Front/rear apron ×2



Metric face: 1066.8 × 88.9 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

D Between-apron end tie ×2



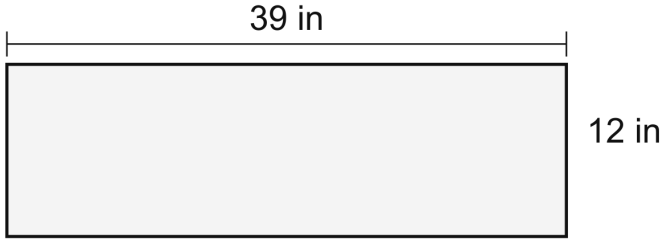
Metric face: 533.4 × 88.9 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

Original B/W vector drawing • US inches control • unbuilt / untested

PO-036 | DIMENSIONED PARTS 2 OF 2

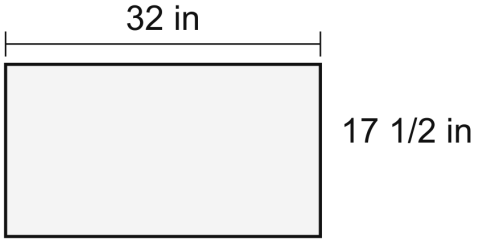
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

E Rear racking panel ×1



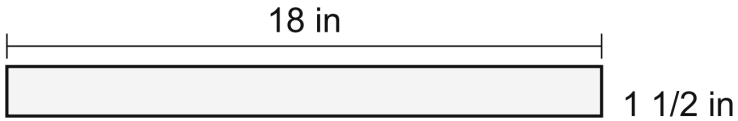
Metric face: 990.6 × 304.8 mm
Thickness: 1/2 in / 12.70 mm
Stock and special cuts: materials list.

F Lower shelf ×1



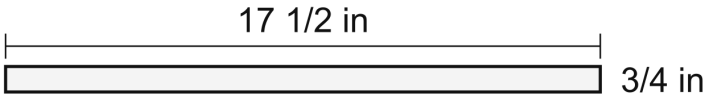
Metric face: 812.8 × 444.5 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

G Lower-shelf support ×2



Metric face: 457.2 × 38.1 mm
Thickness: 1 1/2 in / 38.10 mm
Stock and special cuts: materials list.

H Shelf cleat ×2



Metric face: 444.5 × 19.0 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

Original B/W vector drawing • US inches control • unbuilt / untested