PO-043 Open-front removed-litter compost bay

Provide a defined three-sided holding bay for removed poultry litter under a separate site-appropriate waste-management plan; the structure does not sanitize manure.

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 Corner upright	4	36 × 3 1/2 × 3 1/2 in 914.4 × 88.9 × 88.9 mm	Untreated sound straight softwood. Square ends; remove splinters.
B Back slat	6	36 × 3 1/2 × 3/4 in 914.4 × 88.9 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.
C Side slat	12	36 × 3 1/2 × 3/4 in 914.4 × 88.9 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.
D Front lower rail	1	36 × 3 1/2 × 3/4 in 914.4 × 88.9 × 19.05 mm	Untreated sound straight softwood. Square ends; remove splinters.

Hardware and consumables

76 × #8 corrosion-resistant exterior wood screw 2 in (50.8 mm). Back, sides and front rail. Use compatible coatings/metals and the maker's pilot-hole guidance; do not substitute drywall screws.

1 × Site-appropriate retaining anchors. Actual number/type from the prepared support; not a universal ground-anchor design

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

S7 · Raising Backyard Chickens for Eggs, AN239 · University of Florida IFAS Extension

S8 · Poultry Manure and Nutrient Management · Penn State Extension

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 Choose an approved suitable waste-management location and ground/runoff arrangement outside bird and human-produce areas. The bin is not a liner, drainage design or composting protocol.

02 Cut four A corner uprights 36 in long from actual 3 1/2 in square untreated stock. Do not sink these posts into soil under this component plan.

03 Cut six B back slats 36 × 3 1/2 × 3/4 in; cut twelve C side slats 36 × 3 1/2 × 3/4 in.

04 Set A on the actual firm level prepared support, outside square 36 × 36 in. Temporarily brace them square while fastening; no person stands inside to stabilize them.

05 Mark slat lower edges at 2, 7, 12, 17, 22 and 27 in above the post bases. This leaves 1 1/2 in ventilation gaps between 3 1/2 in slats.

06 Attach B across the rear post faces at y = 36 in, with four 2 in screws per slat, two at each post, twenty-four screws total.

07 Attach C across the outer x-faces of the front/rear posts at the same height lines, four 2 in screws per C, forty-eight total. Each full-length slat overlaps 3 1/2 in of post face at both ends.

08 Place the two screws at each slat end 1 in from its short end, at 3/4 and 2 3/4 in above its lower edge. Recheck the square after both side walls are complete.

09 Cut D 36 × 3 1/2 × 3/4 in and attach to the front post faces at the 2 in height line, four 2 in screws. Keep the rest of the front open for hand-tool access.

10 Check diagonals, contact at every slat end, sharp points and the actual site support. Fit site-appropriate anti-tip/ground retention separately without claiming a universal anchor.

11 Load removed litter gradually from the front using dedicated tools. Keep within the bay, away from the slat tops, and manage rainfall, runoff, animals and access under the actual waste plan.

12 Do not label contents safe compost based on appearance or this bin. Follow current appropriate composting/use guidance separately; inspect wood decay and site runoff after weather.

Acceptance and intermediate checks

Post outside square is 36 × 36 in; slat heights are marked from the actual post bases.

Every side-slat end overlaps the full 3 1/2 in post face; no fastening to open air.

Site retention and runoff controls are separate and appropriate; no invented foundation/roof/load design.

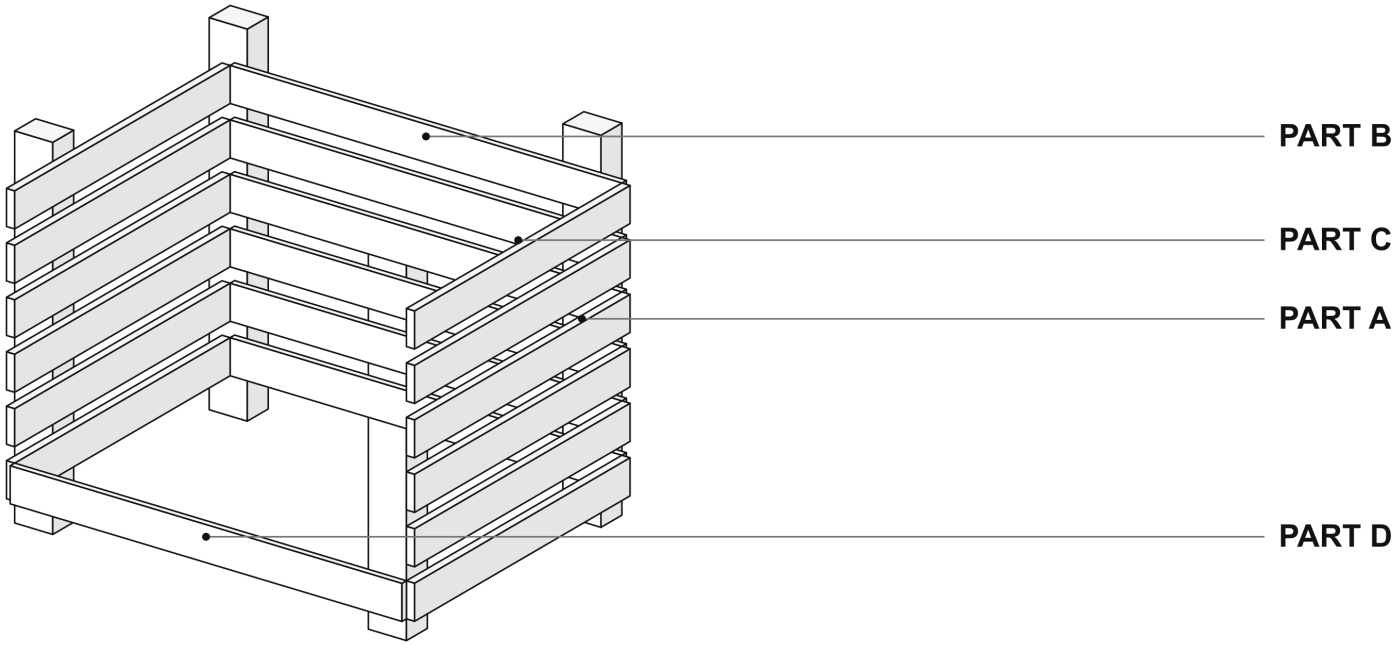
No compost-temperature, pathogen-kill, fertilizer-rate or garden-ready claim.

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-043 | ASSEMBLY GEOMETRY

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Displayed schematic envelope (x × y × z):

37 1/2 in × 37 1/2 in × 36 in / 952.5 × 952.5 × 914.4 mm

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

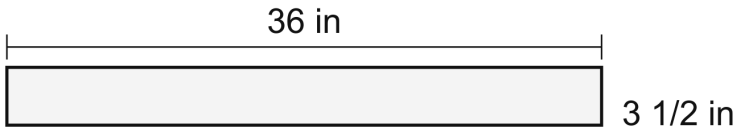
Original black/white vector schematic; dimensions control. Untested editorial draft.

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

PO-043 | DIMENSIONED PARTS 1 OF 1

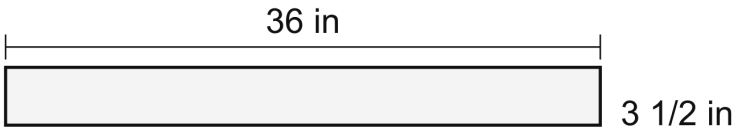
Finished sizes; allow for saw kerfs. Match part letters to the materials list.

A Corner upright ×4



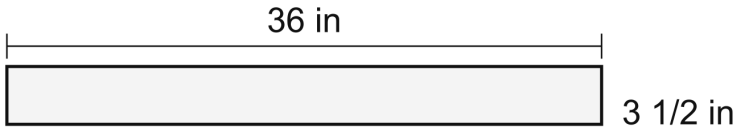
Metric face: 914.4 × 88.9 mm
Thickness: 3 1/2 in / 88.90 mm
Stock and special cuts: materials list.

B Back slat ×6



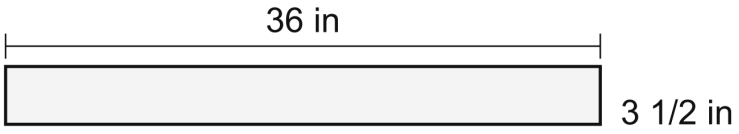
Metric face: 914.4 × 88.9 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

C Side slat ×12



Metric face: 914.4 × 88.9 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

D Front lower rail ×1



Metric face: 914.4 × 88.9 mm
Thickness: 3/4 in / 19.05 mm
Stock and special cuts: materials list.

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