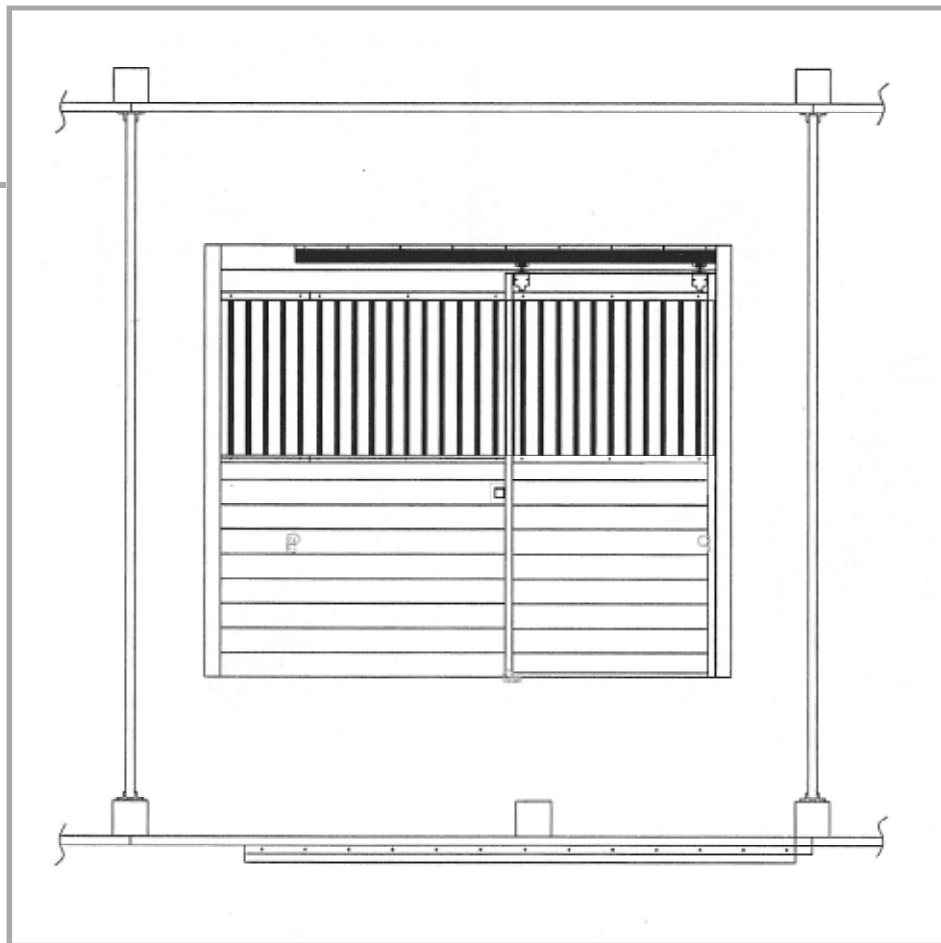


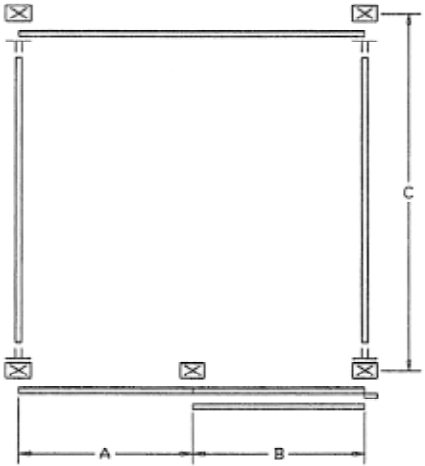


# STEEL HORSE STALL

## Installation Instructions



*steel horse stall*



CENTER TO CENTER POST SPACING  
FOR TYPICAL SIZE STALLS

NOMINAL 10' x 10' STALL

- A 6'
- B 4'
- C 10'

NOMINAL 10' x 12' STALL

- A 6'
- B 4'
- C 12'

NOMINAL 12' x 12' STALL

- A 8'
- B 4'
- C 12'

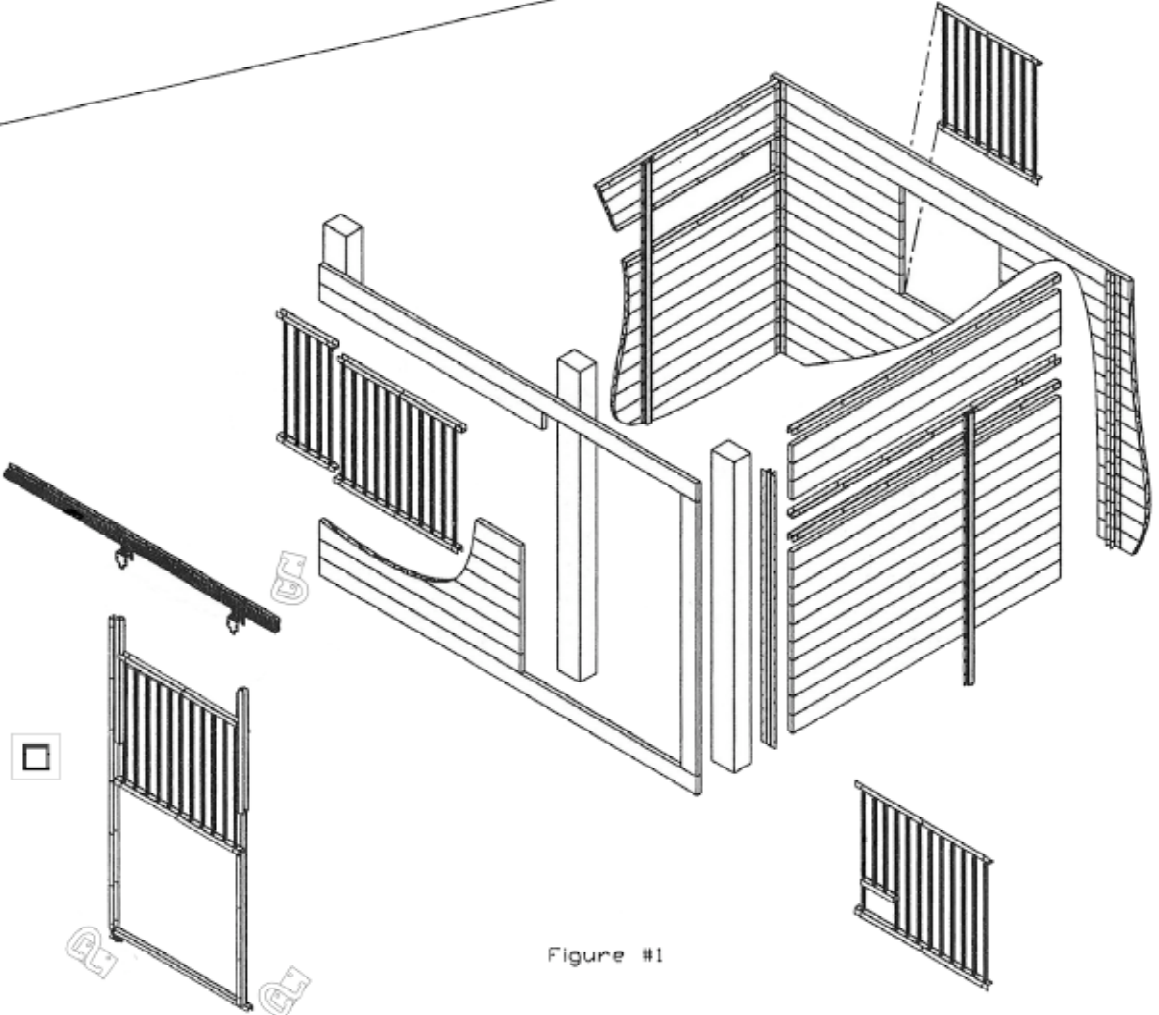


Figure #1

# STEEL Horse Stall Parts List/Installation

The following installation instructions are general guidelines for assembling and installing CannonBall:HNP Steel Horse Stall products. All lumber for this kit must be provided by the installer or builder. It is recommended that treated lumber be used for all bottom boards of stall. While there is not a specific order in which the stall must be assembled, please note that the stall front must be installed before the stall door can be installed.

## NOTE:

Due to variations in lumber dimensions, building design, and customer preferences, measurements provided in this manual may require adjustment for the specific situation. In general, the bottom edge of 30" grills should be approximately 51-1/2" above the floor to allow for proper clearance for accessories and for access to specific features.

## Stall Door Package:

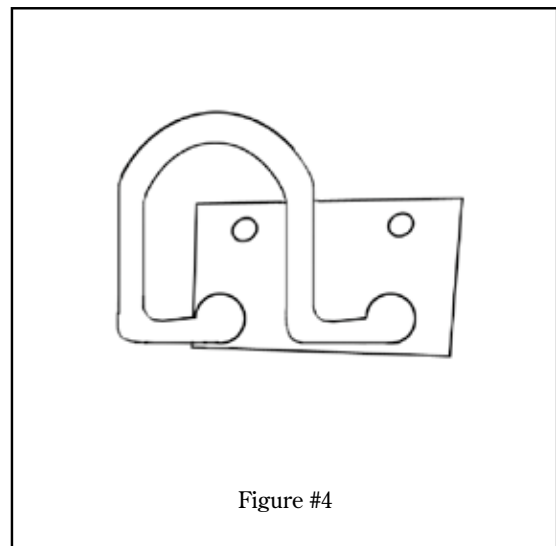
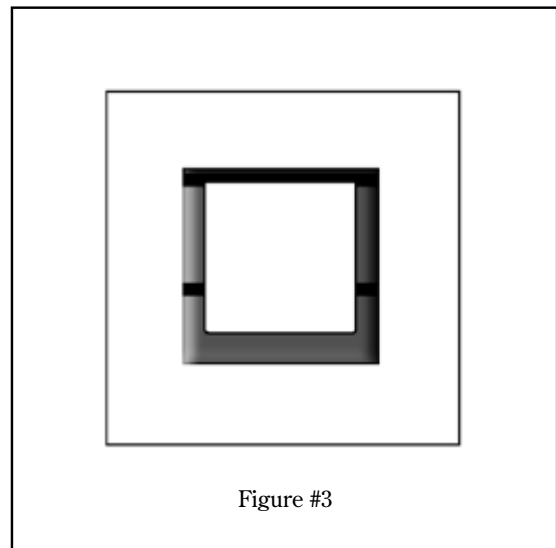
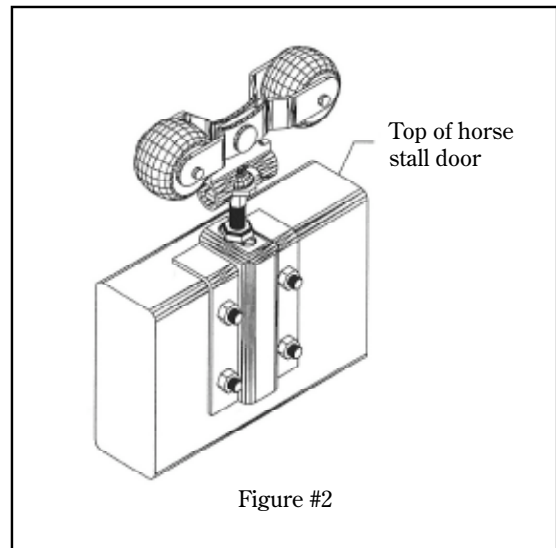
|   |      |
|---|------|
| Door Frame Assembly                           | 1ea. |
| Door Track                                    | 1ea. |
| Round Track Trolleys                          | 2ea. |
| Adj. Trolley Strap                            | 2ea. |
| Bolt Package for Trolleys                     | 1ea. |
| Stall Door U-Keepers                          | 3ea. |
| Recessed Latch Assy.                          | 1ea. |
| Assembly Screw Pkg. (#14-10 x 1", 100 screws) | 1ea. |
| Latch Carriage Bolt, 1/4" - 20 x 1            | 2ea. |
| Latch Hex Nuts, 1/4" - 20                     | 2ea. |

NOTES: Overall height of completed door is 87". Sufficient lumber is required so that when lumber is stacked in lower door frame, the faces of the lumber must cover a total of 50-1/2" for doors using 30" grills, or 44-1/2" for doors using 36" grills. Excess lumber should be rip cut from the top and bottom boards of the door as required to achieve the desired appearance. The top board of the door should be fabricated by rip-cutting a 2x8 board to 6-1/4". For doors 49" in width, all door boards should be crosscut to 48-1/2" in length. For doors 54" in width, boards should be crosscut to 53-1/2" in length.

The stall front must include a header board that extends the full width of the stall front (from post to post) to which the track for the door can be attached. The stall front must also include a door opening 4" narrower than the door kit provided (45" opening for a 49" door kit; 50" opening for a 54" door kit). The lower panel boards of the stall front must also be installed prior to door installation in order to install drop down latch. Hardware positioning is subject to owner preferences and needs – adjust as needed.

### Door Assembly:

1. Lay door frame on a flat surface and remove bottom rail of door frame.
2. Insert door boards for lower panel and reinstall bottom rail of door frame flush with side rails. Secure side rails of door frame to door boards.
3. Install and fasten top board of door using enclosed fasteners.
4. Install Trolleys – using Adj. Trolley Strap, measure in 5-1/2” from outside edge of door side rail to outside edge of Adj. Trolley Strap on board above Grill Assembly. Use Adj. Trolley Strap as a drilling template to drill holes to fasten strap to door. Assemble and install trolley using 5/16-18 x 1-3/4 carriage bolts with bolt head facing the stall and nut end facing the aisle. Repeat on opposite side of door to install second trolley. (figure #2)
5. Install Door Track – Measure 94” from floor, level, and attach track with end 2-1/2” in from outside edge of stall front.
6. Install Recessed Door Latch – at a height sufficient for owner to reach latch from inside of the stall through the stall front grill, measure 1-1/2” in from edge of stall door opening on the side toward which the door will open. Router a 3-7/8” x 3-7/8” square to a depth of 1” with the edge of the square 1-1/2” from the edge of the stall door opening. Using latch as a template drill holes and install Recessed Door Latch using enclosed Latch Carriage Bolts and Hex Nuts. (figure #3)
7. Install Door Guide U-Keeper – On the side towards which the door will open, install one U-Keeper with U-shape opening upward and edge of U-Keeper flush with edge of door opening. Height will vary depending on grill and door heights but should allow door to fit through the U-shape with approximately 1/2” clearance between bottom edge of door and U-Keeper (typically the bottom of the keeper will be about 3/4” above the floor – adjust as needed). (figure #4)



8. Install Door Panel – Use tape to secure recessed latch in the upright position. Raise completed door panel and guide trolleys into door track. Secure door to prevent sliding out of track during installation of stops.
9. Install Door Stop U-Keepers – At a height preferred by the building owner, measure 1” out from closed edge of door opening and install one U-Keeper to receive stall door in the closed position. At a position preferred by the building owner, install one U-Keeper to receive stall door in the open position. Remove tape from recessed latch to allow proper operation.
10. Final Adjustments – Adjust trolleys as required for proper alignment of grilles and guide hardware. Ensure proper operation of all guides, stops, and recessed latch.

#### Installation of Grill Sections

1. Assemble Lower Panel – Install lumber for lower wall panel (lumber provided by installer or building). Rip boards as required to achieve desired grill height.
2. Position Grill Assembly – Set grill assembly in place on bottom of grill opening. For large openings with multiple grills, position all grill sections ensuring that edges of grills are flush.
3. Secure and Fasten – Set top plank of grill opening into top rail of grill(s) ensuring that plank is fully seated into grill rails. Fasten plank to stall front posts (if required) and fasten grill(s) to plank.

#### Installation of Wall Braces and Stall Wall Rails

1. Refer to Figure #1 Stall Drawing for position requirements for Wall Braces and Stall Wall Rails.
2. Install Stall Wall Rails – Where wall construction is required between posts, attach rails vertically on inside face of post with t-slot opening positioned to receive wall planks.
3. Install Wall Braces – Cut braces to required length and attach vertically to wall planks.



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