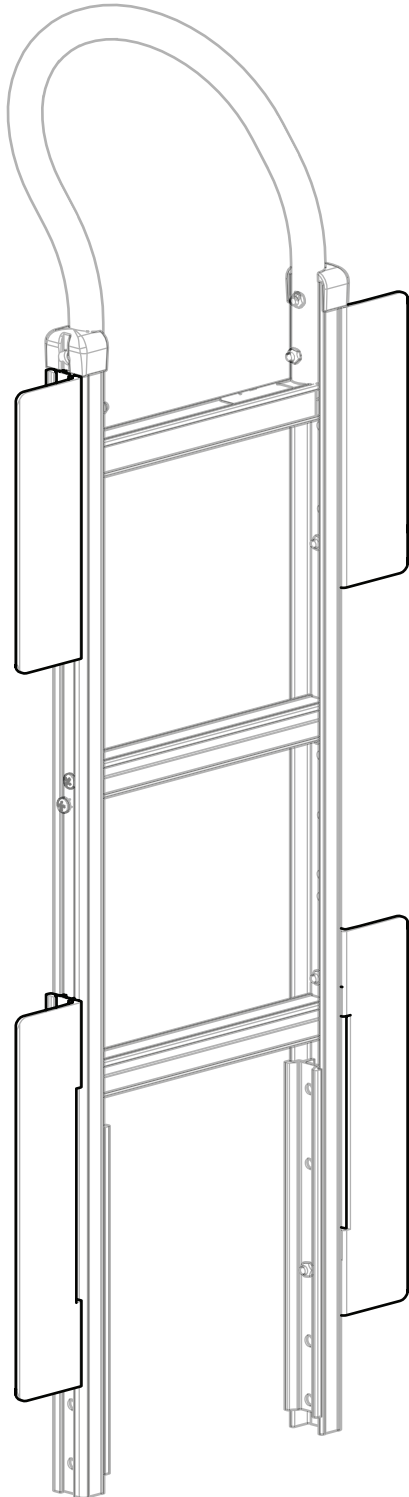


Assembly Instructions



Hand Truck Wings (for bolted frames)

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PARTS LIST

Item	Description	Qty. 33" Frame	Qty. 39" Frame	Qty. 52" Frame	Part No.
A	Upper hand truck wing	2	2	2	303132
B	Lower/middle hand truck wing	2	2	4	303133
C	Pan head machine screw - 1/4"-20 x 1-1/4 long	2	2	2	80104
D	Pan head machine screw - 1/4"-20 x 3/4 long	4	4	8	80256
E	Hex lock nut - 1/4"-20	6	6	10	80675
<i>Note: There may be excess hardware included in the kit. Please use the chart below to determine correct screws for your handle choice.</i>					
F	Lower Handle Screws:				
	Pan head machine screw - 1/4"-20 x 1-7/8" long (to be used with handle only)	2	2	2	80039
	Pan head machine screw - 1/4"-20 x 2" long (to be used with universal brace or Hi-U, or double loop handle)	2	2	-	80107
	Pan head machine screw - 1/4"-20 x 2-1/4" long (to be used with universal brace and Hi-U)	2	2	2	80263

TOOLS REQUIRED

- (1) #2 PHILLIPS SCREWDRIVER
- (1) 7/16" WRENCH OR SOCKET WRENCH
- (1) HAMMER

ADDITIONAL TOOLS REQUIRED TO RETROFIT TO EXISTING TRUCK:

- (1) ELECTRIC DRILL
- (1) 5/16" DRILL BIT

Wings are not compatible with the following hand truck options:

- Skid runners
- 4th wheel attachment (W4)
- Wheel guards

NOTE: You may need to drill some holes into the frame side rails in order to retrofit the wings to your hand truck. Please read all instructions carefully before assembling wings to the frame.

HAND TRUCK WING ASSEMBLY

- Assemble upper wings to each side (see Figures 1 and 2).
 - Remove the lower handle screw from each side (all frame models)
 - Align one upper wing (A) as shown in Figure 2 so that the flat surface is toward the front of the frame.
 - Insert replacement 1/4"-20 screw (F) through the upper wing mounting hole (see chart for correct screw length) and secure with a hex lock nut (E). Finger tighten only for now.
 - Insert the 1/4"-20 x 3/4" long screw (D) through the lower mounting hole in the wing; use a hammer to punch the screw through the red stripe. Secure with a hex lock nut (E). Finger tighten only for now.
 - If hole does not exist in frame:** Drill \varnothing .328 hole through the lower mounting hole of the wing and through the side rail.
 - Repeat steps for the other side. Tighten all screws to 50 - 60 in-lbs. of torque.

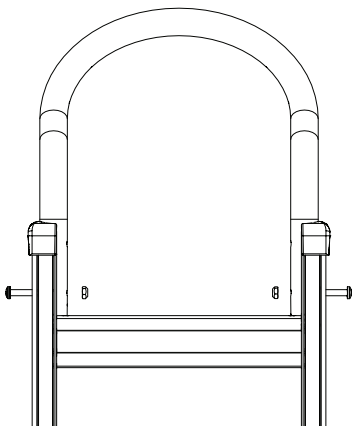


Figure 1

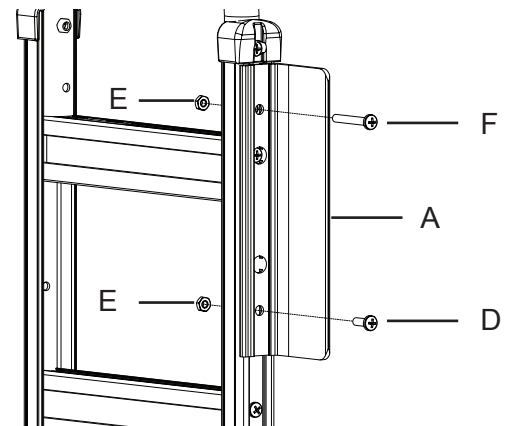


Figure 2

2. Assemble lower wings to each side (see Figure 3).
 - a. Locate the hole in the side rail reinforcement just above the nose mounting screws. Use a hammer and screw to pierce the red stripe. **If hole does not exist in frame:** From the inside of the side rail reinforcement, drill \varnothing .328 hole through the side rail.
 - b. Align one lower wing (B) against the side rail so that the second hole from the bottom is aligned with this hole. Install one 1/4"-20 x 1-1/4" long screw (C) and secure with one hex lock nut (E). Finger tighten for now.
 - b. Locate the hole in the side rail just above the lowest cross brace; use a hammer and screw to pierce the red stripe. **If hole does not exist in frame:** Drill \varnothing .328 hole through the correct hole in wing as indicated in Figure 3 and through the side rail.
 - c. Insert the 1/4"-20 x 3/4" long screw (D) through the upper mounting hole in the wing as indicated in Figure 3; secure with hex lock nut (E). Finger tighten for now.
 - e. Repeat steps for the other side. Tighten all screws to 50 - 60 in-lbs. of torque.

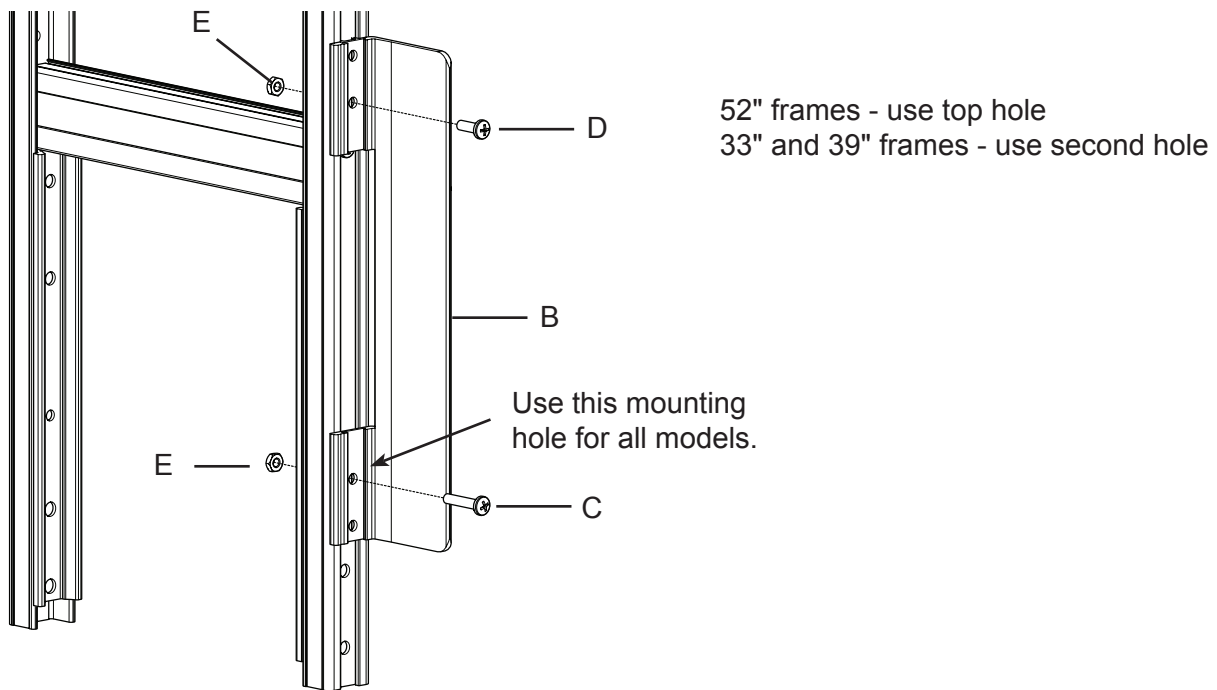


Figure 3

3. *For 52" frames only:* Assemble middle wings to each side. **If holes do not exist in frame:** Continue with Step 3 below. **If holes do exist:** Skip to Step 4.
 - a. Position the middle wing (B) against the side rail so that the bottom edge of the wing is about 21-3/4" above the bottom edge of the frame side rail.
 - b. Mark the location of the topmost hole in the wing onto the frame. Mark the location of the second from the bottom of the wing mounting holes onto the frame.
 - c. Remove the wing and drill $\varnothing .328$ holes through the side rail where marked; repeat for the other side.
 - d. Refer to Step 4 to install the wings.

4. If holes exist in the frame (see Figure 5):
 - a. Locate the holes in the side rail just below the second and third cross braces from the top; use a hammer and screw to pierce the red stripe.
 - b. Position the middle wing (B) against the side rail and insert a 1/4"-20 x 3/4" long pan head screw (D) through the wing's top hole and secure with a lock nut (E)(finger tighten only for now).
 - c. Insert a 1/4"-20 x 3/4" long pan head screw (D) through the wing's second hole from the bottom and secure with a lock nut (E)(finger tighten only for now).
 - e. Repeat steps for the other side. Tighten all screws to 50 - 60 in-lbs. of torque.

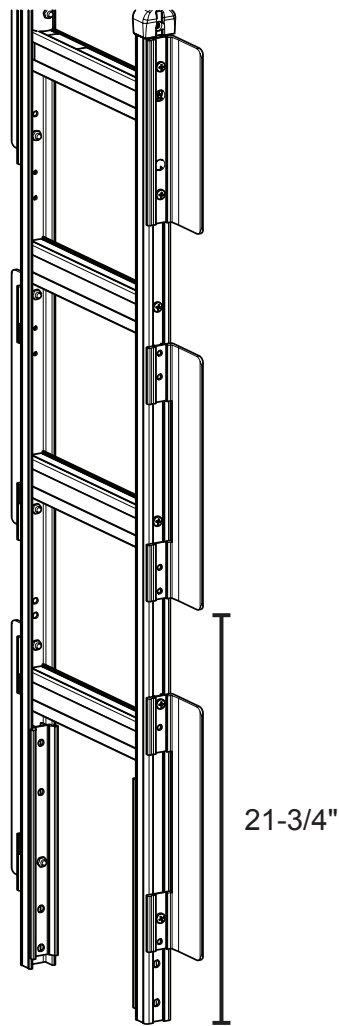


Figure 4

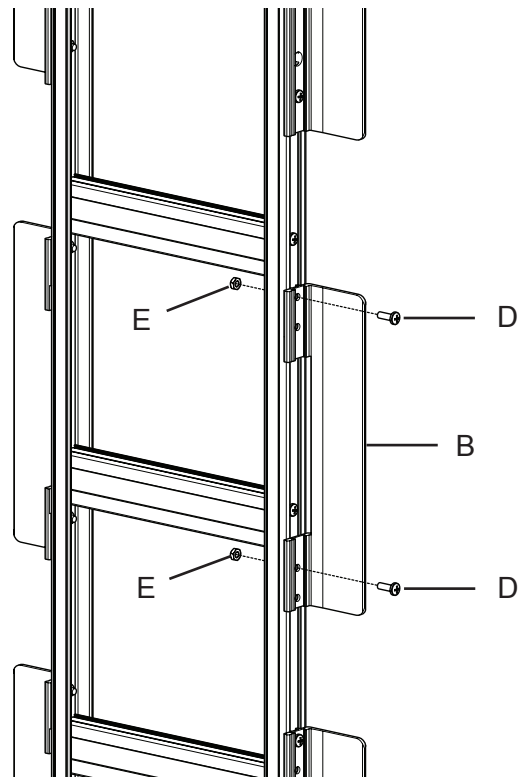


Figure 5

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