

## *model no:*



**WABASH VALLEY**

© Wabash Valley Manufacturing, Inc.

ES500D, ES500P, ES500R, ES500S  
ES505D, ES505P, ES505R, ES505S  
ES520D, ES520P, ES520R, ES520S  
ES525D, ES525P, ES525R, ES525S  
SP400P, SP400R

## **ESTATE SERIES**

6' MEMORIAL RIB & PERFORATED BENCHES  
4' & 6' BENCHES, LOW PROFILE BENCHES  
EXPANDED METAL, RIB, PERFORATED, & SLAT

## *customer service:*

**ASSEMBLERS:** If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us at: Any correspondence concerning our product should be sent directly to our **Customer Service Manager** at:

\* Before calling, have your product model number available.

**1-800-253-8619 (Inside U.S.A.)**  
**260-352-2102 (Outside U.S.A.)**

Monday thru Friday,  
8:00 AM – 4:30 PM Eastern Time  
(EXCEPT HOLIDAYS)

Wabash Valley Manufacturing, Inc.  
505 E. Main Street  
P.O.Box 5  
Silver Lake, IN 46982 U.S.A.  
FAX: 260-352-2160

## *maintenance:*

Regular inspection and maintenance of all parts, and fasteners is necessary. Tighten all bolts and nuts. Inspect Tops, Seats, Legs, Braces and Fasteners periodically for wear or vandalism. Replace broken or worn parts immediately or take equipment out of service until repairs are made. Use genuine Wabash Valley replacement parts.

To restore plastisol coating to its luster after prolonged use, wash/rinse/dry and use Armor-All ® or similar quality vinyl protectant.

**KEEP THIS ASSEMBLY/SPECIFICATION SHEET FOR FUTURE REFERENCE.**

## *specifications:*

**NOTE: We reserve the right to change specifications without notice.**

Heat fused poly-vinyl coating, finished on inner-metal structure, to an approximate 3/16" thickness. Framework assemblies are finished with powder coating; electrostatically applied and oven cured according to powder manufacturer's specifications. Fasteners are stainless steel to resist corrosion.

### **BENCH FRAME:**

Main support legs are 319 cast aluminum. Web width is 1/4" and leg width is 2 1/2". Foot pads are 2 3/4" x 4 3/4".

### **BENCH SEAT:**

Expanded seat uses 3/4" #9 expanded metal. Rib is 10 gage and perforated is 12 gage sheet steel. Both types of fabricated metals and sheet metals are machine rolled, forming the seat's contour shape. The slats are 1/4" x 2 1/4" flat bar. The bench's frame/mounting brackets are 10 gage sheet steel. Support braces, adding support to the bench's contour shape, are 1/4" x 1 1/4" flat bar steel.

### **GENERAL:**

4' Estate bench ground space requirements are 26 3/4" x 53 1/8" for a single unit. The bench seat is 48 1/8" long x 26 3/4" wide and 16 1/2" to the lowest part of the bench's seat.

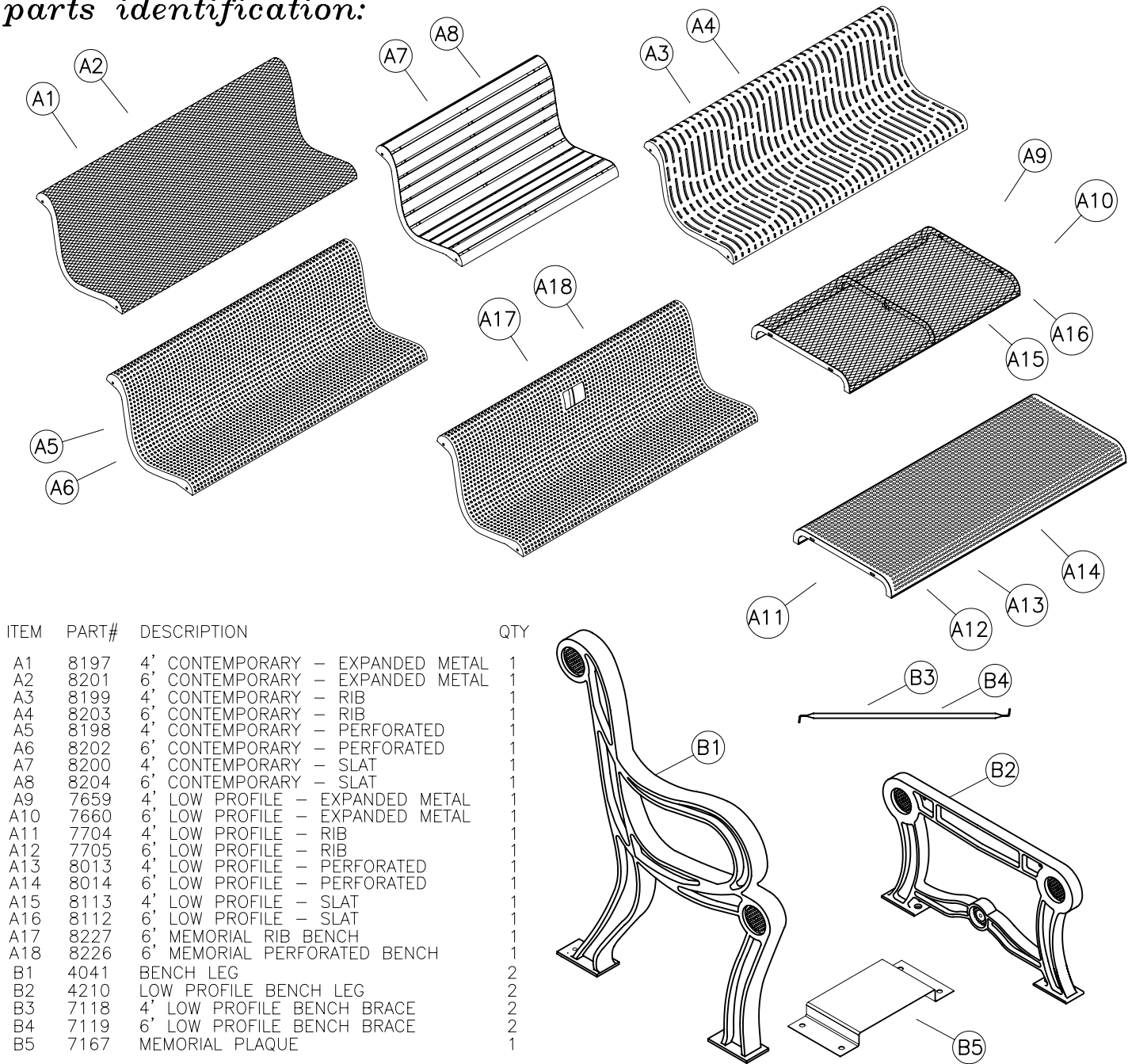
6' Estate bench ground space requirements are 26 3/4" x 77 1/8" for a single unit. The bench seat is 72 1/8" long x 26 3/4" wide and 16 1/2" to the lowest part in the bench's seat.

4' Estate low profile bench ground space requirements are 30 3/8" x 53 1/8" for a single unit. The expanded metal, rib and perforated bench seat is 48 1/8" long x 30 3/8" wide and 16 3/4" to the top of the seat.

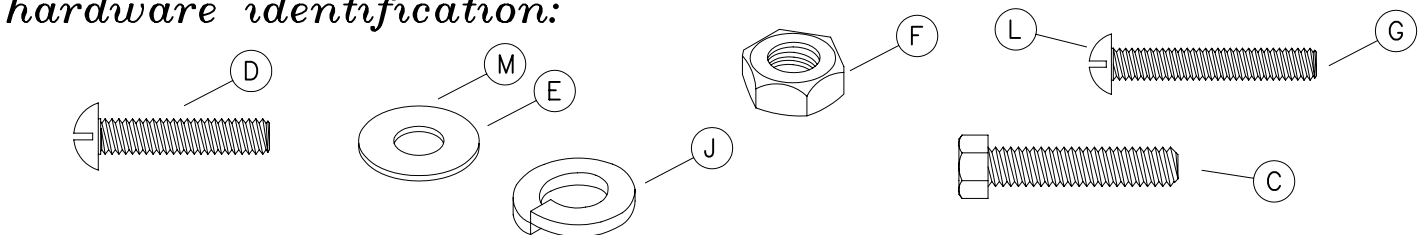
6' Estate low profile bench ground space requirements: 30 3/8" x 77 1/8" for a single unit. The bench seat is 72 1/8" long x 30 3/8" wide and 16 3/4" to the top of the seat.

The Memorial Plaque consists of 304 brushed stainless steel.

parts identification:



hardware identification:



ITEMS INCLUDED IN HARDWARE PACK

ITEM	PART#	DESCRIPTION	#21049	#21098	#21102	ASSEMBLY TOOLS REQUIRED
			QTY	QTY	QTY	
C	17011	5/16-18 x 1 1/2" HEX BOLT - SS	0	1	0	1 - REGULAR TIP SCREWDRIVER 2 - 1/2" WRENCHES 1 - 3' OR 6' LEVEL
D	17025	5/16-18 x 1 1/2" MACHINE SCREW - SS	0	2	0	
E	17028	3/8" ID x 7/8" OD FLAT WASHER - SS	6	8	0	
F	17032	5/16-18 HEX FINISH NUT - SS	6	7	0	
G	17058	5/16-18 x 2" ROUND HEAD MACHINE SCREW - SS	6	4	0	
J	17050	5/16" SPLIT LOCK WASHER - SS	6	7	0	
L	17022	1/4-20 x 1/2" ROUND HEAD MACHINE SCREW - SS	0	0	4	
M	17103	5/16" FLAT WASHER - SS	0	0	4	

## **assembly procedures:** IMPORTANT: Assemblers should be reasonably skilled in the assembly of commercial grade/heavy duty fabricated steel equipment.

To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. **Also please read the instructions and study the sketches very carefully.** A little extra time spent before assembly will be well worth it in performing a complete, proper assembly. Please note that all parts have been pre-cut and pre-drilled.

During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. **After final adjustment and leveling, permanently tighten all nuts, bolts and fasteners.**

### BENCH ASSEMBLY

#### STEP 1

Stand one (B1) leg upright on its feet. Lift upward on the arm and pivot on the rear foot pad until the leg is lying on its' back, see FIG 1. Be sure to prop the leg on both sides to prevent tipping. Place (A-) seat next to the leg and rotate upward to match position of leg.

#### STEP 2

Align holes of the seat's frame/mounting bracket to the holes in the leg. Use three (G) and (F) using two (E) and one (J) per (G). Flat washers (E) must be used on the seat side.

#### STEP 3

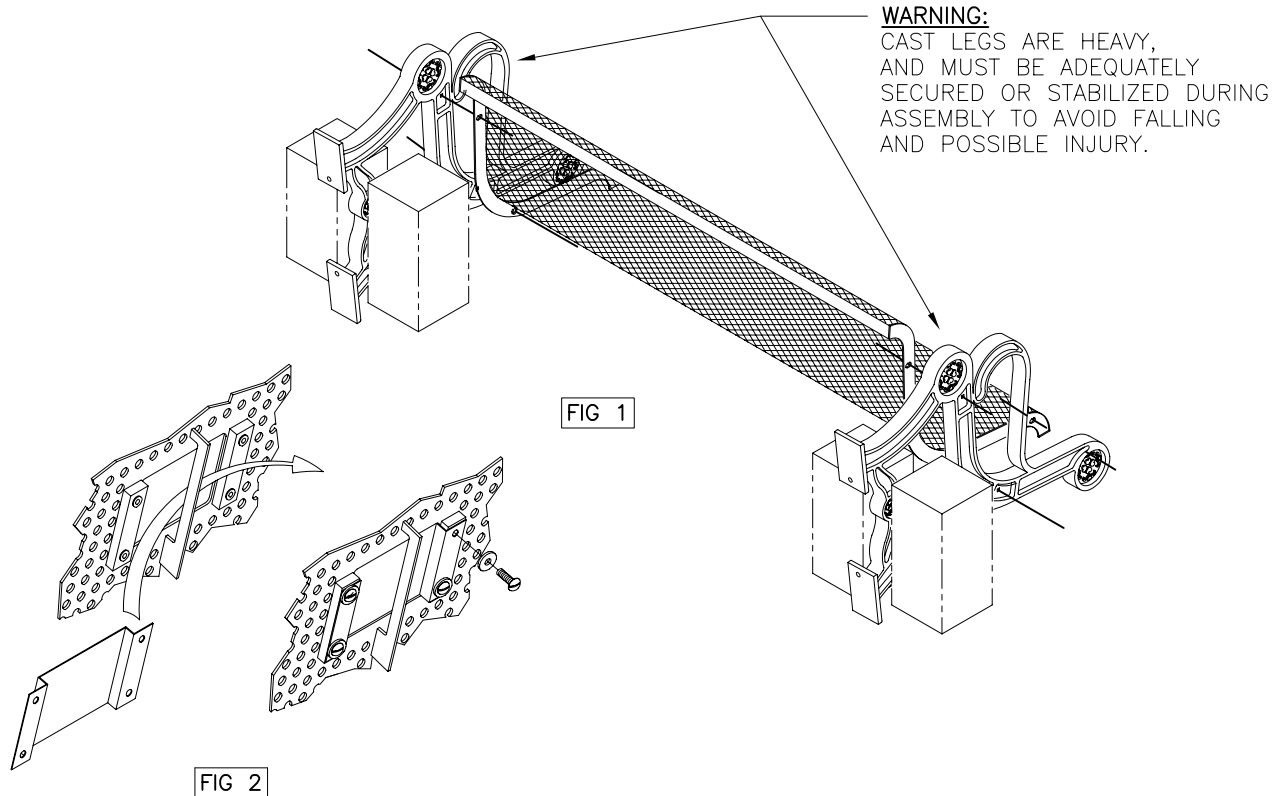
Repeat STEP 1 and STEP 2 to complete installation of the other end of seat.

#### STEP 4

Finger tighten the bolts and rotate the bench legs to its original position in STEP 1. Level the bench if necessary. Tighten the bolts with proper wrenches.

### MEMORIAL BENCH INSTRUCTIONS

After engraving is complete, assemble plaque (B5) to the (A17/A18) bench using four (L) and one (M) per each (L), see Fig. 2. Thread plaque between center bracket and window of bench panel. Align holes, insert screws and tighten.



**installation:** **WARNING:** The proper installation for Wabash Valley products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

## assembly procedures cont.:

### STEP 1:

Place the low profile bench (A-) on a strong sturdy object and attach legs (B2) with one (G), (F), (J) and (E) per hole with the washer on the bench side, see FIG. 3.

### STEP 2:

Remove the bench from the object, level the bench, attach brace (B3) or (B4) to legs (B2) with one (D), (J), (F) and (E). Join braces (B3) or (B4) in the middle on the low profile bench (A-) with one (C), two (E) and one (F) and (J), see FIG. 4.

### STEP 3:

Tighten all hardware with proper tools.

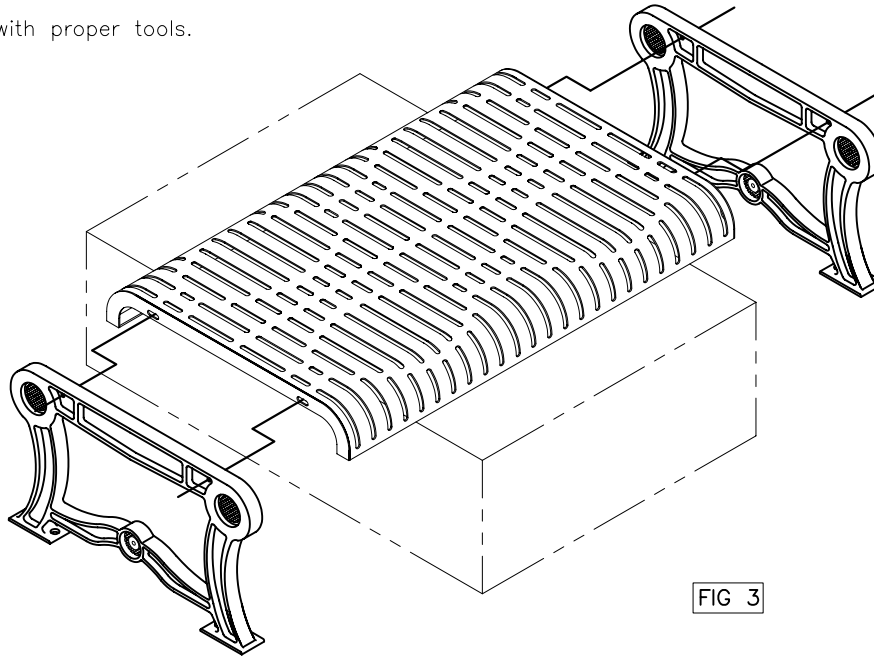


FIG 3

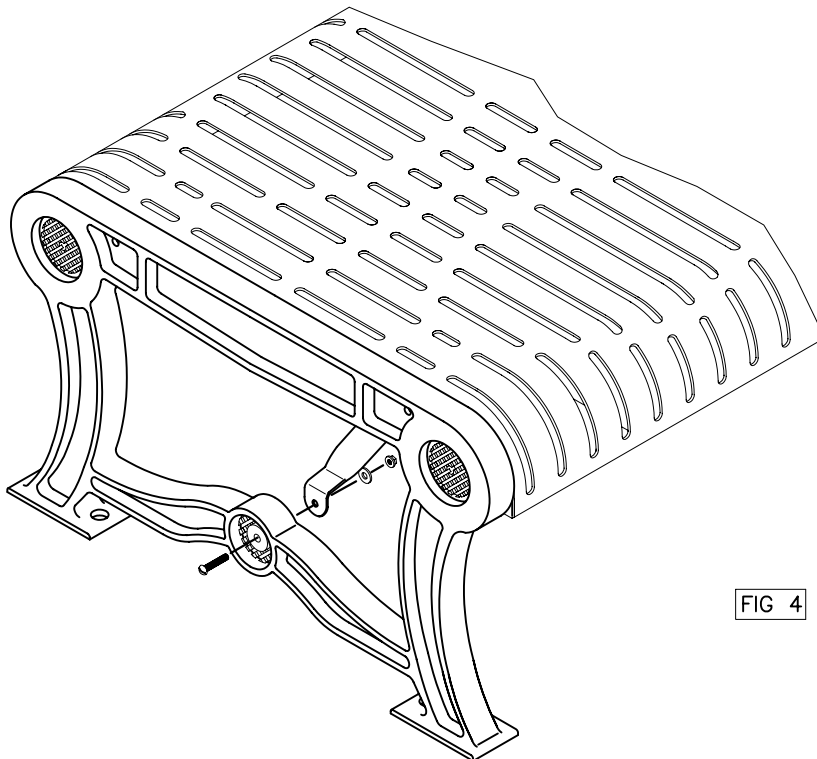


FIG 4

product dimensions:

