

Staff Summary Report

Council Meeting Date: 11-08-2007

Agenda Item Number: _____

SUBJECT: Request to award a one-year contract with four, one-year renewal options to Dave Bang Associates, Inc. for park furniture.

DOCUMENT NAME: 20071108fslg04 **PURCHASES (1004-01)**

SUPPORTING DOCS: Yes

COMMENTS: (IFB #08-065) Total cost for this contract shall not exceed \$300,000 during the initial contract period.

PREPARED BY: Lisa Goodman, CPPB, Procurement Officer, 480-350-8533

REVIEWED BY: Michael Greene, CPM, Central Services Administrator, 480-350-8516

**LEGAL REVIEW AS
TO CONTRACT FORM**

ONLY: N/A

FISCAL NOTE: Sufficient funds have been appropriated in 6302409, 6399729, 6725, 6844A - 7511.

RECOMMENDATION: Award the contract.

ADDITIONAL INFO: Invitation for Bid (IFB) #08-065 was issued to sixty-one (61) vendors and only one vendor responded. An evaluation committee comprised of Parks and Recreation and Procurement staff reviewed the response. The committee recommends award of the contract to Dave Bang Associates, Inc. the lowest, responsive and responsible bidder.

INVITATION FOR BID

CITY OF TEMPE

INVITATION FOR BID: 08-065

BID ISSUE DATE: 09/05/2007

Commodity Code(s): 420-62, 650-36

PROCUREMENT DESCRIPTION: Park Furniture

BID DUE DATE/TIME: **Tuesday, October 9, 2007, 3:00 P.M. Local Time**
Late bids will not be considered

BID RESPONSE MUST BE DELIVERED TO CITY PROCUREMENT OFFICE

Mailing Address: PO Box 5002, Tempe, AZ 85280

Street Address: 20 E. Sixth Street (2nd Floor), Tempe, AZ 85281

PRE-BID CONFERENCE: N/A

DEADLINE FOR INQUIRIES: **Friday, September 28, 2007, 5:00 P.M., Local Time**

Sealed bid must be received and in the actual possession of the City Procurement Office on or before the exact Bid Due Date/Time indicated above. Bid responses will be opened and each bidder's name and bid prices will be publicly read. Late bids will not be considered.

Bids must be submitted by a sealed envelope/package with the Invitation For Bid number, bidder's name and address clearly indicated on the envelope/package.

Bids must be completed in ink or typewritten and a completed bid response returned to the City Procurement Office by the Bid Due Date/Time indicated above. The "Vendor's Bid Offer" (form 201-B IFB) must be completed and signed in ink. Bids by electronic transmission, telegraph, mailgram or facsimile will not be considered.

Bidders are asked to immediately and carefully read the entire Invitation For Bid and not later than 10 days before the Bid Due Date/Time, address any questions or clarifications to the Procurement Officer identified below:

Lisa Goodman _____, CPPB E-mail: Lisa_goodman@tempe.gov Phone No: 480-350-8516
Procurement Officer

Bid evaluation and award selection recommendations are publicly posted to the City Procurement Office web page (**www.tempe.gov/purchasing**) and at the Procurement Office reception counter.

Submit one- (1) original signed and completed bid responses for evaluation purposes. For this specific IFB, 3 additional bid response copies are also to be submitted for bid evaluation purposes. A late, unsigned and/or materially incomplete bid response will be considered non-responsive and rejected.

JH

Jerry Hart
Financial Services Manager

Vendor's Bid Offer

It is REQUIRED that Bidder COMPLETE, SIGN and SUBMIT the original of this form to the City Procurement Office with the bid response offer. An unsigned "Vendor's Bid Offer", late bid response and/or a materially incomplete response will be considered non-responsive and rejected.

Bidder is to type or legibly write in ink all information required below.

Bidder's Company Name <u>DAVE BANG ASSOCIATES, INC.</u>	
Company Mailing Address <u>P.O. BOX 8760, MESA, AZ 85214</u>	
Company Street Address <u>140 N. GILBERT RD. MESA, AZ 85203</u>	
Bid Offeror Contact <u>JONATHAN MOUER</u>	Title <u>ASSOCIATE</u>
Contact's Phone No. <u>480-892-2266</u>	E-mail Address <u>JONATHAN@DAVEBANG.COM</u>
Bidder's Company Tax Information:	
Arizona Transaction Privilege (Sales) Tax No. <u>07-523960T</u> or	
Arizona Use Tax No. _____	
Federal I.D. No. <u>86-0782679</u>	
City & State Where Sales Tax is Paid <u>MESA</u> , <u>AZ</u>	

THIS BID IS OFFERED BY

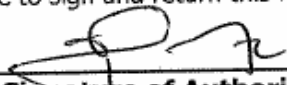
Authorized Bid Offeror (Type or Print in ink) JONATHAN MOUER

Bid Offeror's Title (Type or Print in ink) ASSOCIATE

Date 10/9/07

REQUIRED SIGNATURE OF AUTHORIZED BID OFFEROR (Must Sign in Ink)

By signing this Bid Offer, Bidder acknowledges acceptance of all terms and conditions contained herein and that prices offered were independently developed without consultation with any other bidder or potential bidder. Failure to sign and return this form with bid response will result in a non-responsive bid response.



Signature of Authorized Bid Offeror

10/9/07

Date

Specifications

Listed below are the minimum specifications for park furniture. Any exceptions to the specifications must be explained. Vendors must return the completed specification sheets with their bid response in order to be considered responsive.

Item 1 - Picnic Tables, Surface Mount, Installed

Minimum specifications for plastic coated expanded metal picnic tables, Wabash Spyder Series (SY135, SY140 & SY150/MC104 or 106) or approved equal as follows:

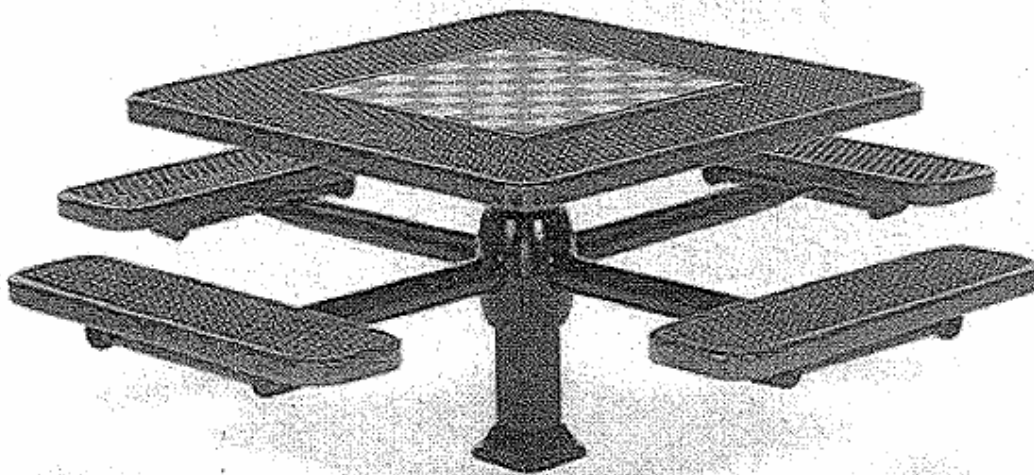
Specification	Vendor Response		
	Yes	No	Exceptions
Plastic Coating: Heat fused poly-vinyl coating, finished on inner-metal structure to approximately 3/16" thickness	✓		
Tops: Diamond Pattern, 3/4", #9 steel mesh with 10 gage steel outside rails; 1/4" flat bar steel mounting brackets; 1/8" strip steel support braces	✓		
Seats: Concave; Diamond Pattern, 3/4", #9 steel mesh; 1/8" strip steel edging; 1/4" flat bar steel mounting brackets	✓		
Frame: 12 gage x 2 7/8" OD galvanized steel tubing; 1/4" steel plate brace mounting tab; 46" leg with 1/4" flat steel bar mounting bracket; 1/4" x 6" plate steel surface mounting plates	✓		
Mounting Plate Covers: Included; Cast aluminum	✓		
Framework Finish: Powder coated	✓		
Fasteners: Stainless steel	✓		
Sizes: 7', 9' & 11' tables with minimal points of contact with the ground	✓		
ADA: Accessible at both ends of table	✓		
Split benches on each side	✓		
Colors: Available in several colors	✓		
Maintenance: Able to withstand pressure washing without deteriorating	✓		



Item 2 - Game Tables, In-Ground, Installed

Minimum specifications for plastic coated expanded metal game tables, Wabash Game Table – Signature Series (SP226 & SP231/SP100 or 101) or approved equal as follows:

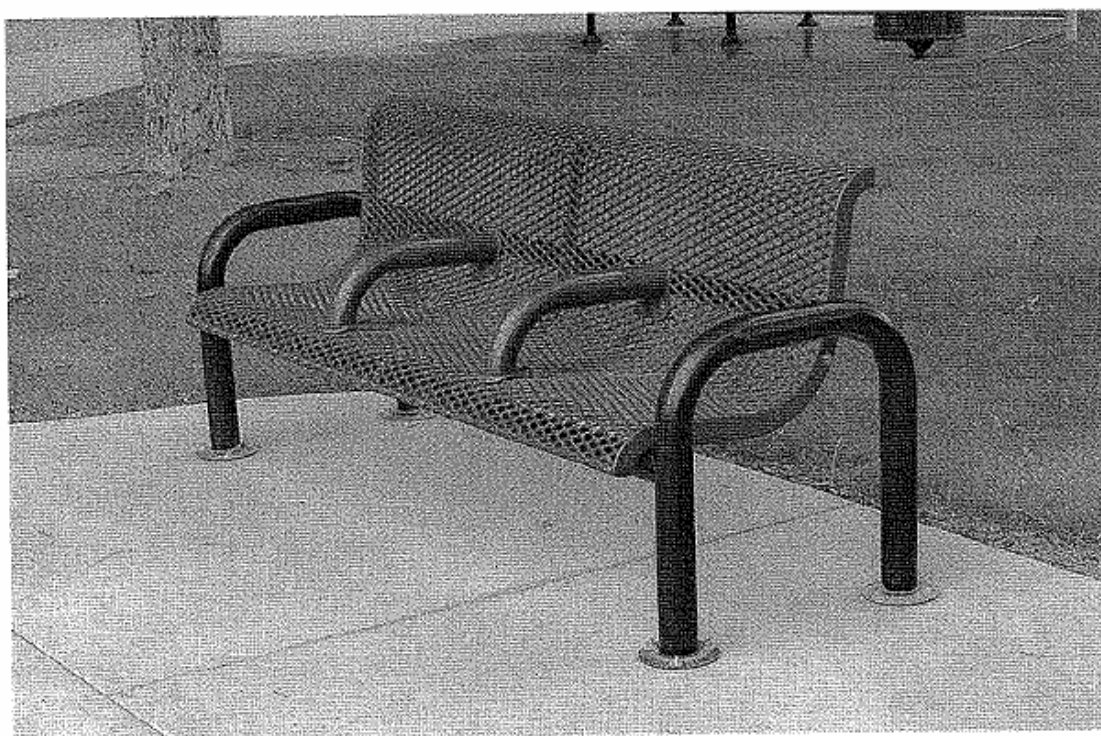
Specification	Vendor Response		
	Yes	No	Exceptions
Plastic Coating: Heat fused poly-vinyl coating, finished on inner-metal structure to approximately 3/16" thickness	✓		
Tops & Seats: Diamond Pattern, 3/4", #9 steel mesh with 14 gage steel framing; 1/4" x 1 1/2" flat bar steel mounting frame & brackets; 1/8" x 1 1/2" strip steel support braces	✓		
Frame: 4" x 4" X 11 gage galvanized structural steel tubing main support; 1/4" x 1 1/4", 1/4" plate steel & 14 gage sheet steel square top mounting frame; 2 7/8" OD x 9 gage galvanized structural steel tubing seating assembly arms; 2 3/8" x 12 gage galvanized steel tubing cross tubing; 3/8" x 3 1/2" x 8" plate steel mounting bracket to post	✓		
Mounting Plate Covers: Included; cast aluminum	✓		
Framework Finish: Powder coated	✓		
Fasteners: Stainless steel	✓		
Size: 46" square game table top with 10 3/8" x 36 3/8" seats	✓		
ADA: Accessible three (3) seat configuration; 30" to top of table	✓		
Game Board: Table insert included	✓		
Colors: Available in several colors	✓		
Maintenance: Able to withstand pressure washing without deteriorating	✓		



Item 3 - Benches, Surface Mount, Installed

Minimum specifications for plastic coated expanded metal benches, Wabash Contemporary Series (CN420/MC104) or approved equal as follows:

Specification	Vendor Response		
	Yes	No	Exceptions
Plastic Coating: Heat fused poly-vinyl coating, finished on inner-metal structure to approximately 3/16" thickness	✓		
Frame: 12 gage x 2 7/8" OD galvanized structural steel tubing main supports; 12 gage x 2 3/8" OD galvanized structural steel tubing attachment supports; 10 gage sheet steel & 1/4" x 1 1/2" steel flat bar mounting brackets; 1/4" x 6" plate steel surface mounting plates	✓		
Bench Seats: Diamond Pattern, 3/4", #9 steel mesh; 1/2" steel rod & 1/4" x 2 1/4" flat steel bar slats; 10 gage sheet steel frame/mounting brackets; 1/4" x 1 1/4" steel flat bar rolled-side support braces	✓		
Mounting Plate Covers: Included; cast aluminum	✓		
Framework Finish: Powder coated	✓		
Fasteners: Stainless steel	✓		
Size: 6'	✓		
Colors: Available in several colors	✓		
Maintenance: Able to withstand pressure washing without deteriorating	✓		



Item 4 - Benches, In-Ground, Installed

Minimum specifications for plastic coated expanded metal benches, Wabash Contemporary Series (CN430) or approved equal as follows:

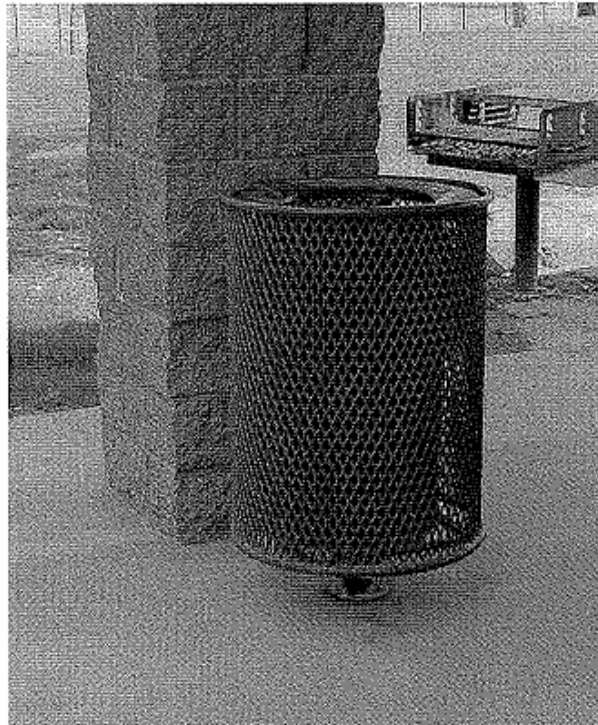
Specification	Vendor Response		
	Yes	No	Exceptions
Plastic Coating: Heat fused poly-vinyl coating, finished on inner-metal structure to approximately 3/16" thickness	✓		
Frame: 12 gage x 2 7/8" OD galvanized structural steel tubing main supports; 12 gage x 2 3/8" OD galvanized structural steel tubing attachment supports; 10 gage sheet steel & 1/4" x 1 1/2" steel flat bar mounting brackets	✓		
Bench Seats: Diamond Pattern, 3/4", #9 steel mesh; 1/2" steel rod & 1/4" x 2 1/4" flat steel bar slats; 10 gage sheet steel frame/mounting brackets; 1/4" x 1 1/4" steel flat bar rolled-side support braces	✓		
Framework Finish: Powder coated	✓		
Fasteners: Stainless steel	✓		
Size: 6'	✓		
Colors: Available in several colors	✓		
Maintenance: Able to withstand pressure washing without deteriorating	✓		



Item 5 - Trash Receptacles, Surface & In-Ground, Installed

Minimum specifications for plastic coated trash receptacles, Wabash (LR300/FT110/LR310/ LR100 or 105) or approved equal as follows:

Specification	Vendor Response		
	Yes	No	Exceptions
Plastic Coating: Heat fused poly-vinyl coating, finished on inner-metal structure to approximately 3/16" thickness	✓		
Trash Receptacle: Diamond Pattern, 3/4", #9 steel mesh with 5/16" steel rod joining ends to form seam; 3/4" steel tubing for top & bottom support; 14 gage sheet steel bottom floor; 1/8" x 3/4" x 1" angle iron top support clips	✓		
Mounting Leg: Included; 2 3/8" OD x 12 gage galvanized structural steel tubing; 14 gage sheet steel mounting plate & gussets; 1/4" plate steel surface mounting plate	✓		
Lid: Included; 18 gage steel; 22 7/8" diameter x 1 3/4" length skirt with a 14" diameter opening	✓		
Liner: Included; 32 gallon	✓		
Framework Finish: Powder coated	✓		
Fasteners: Stainless steel.	✓		
Size: 32 gallon	✓		
Colors: Available in several colors	✓		
Maintenance: Able to withstand pressure washing without deteriorating	✓		



Bid Questionnaire

Answer the following questions in an orderly manner. If using additional sheets of paper, clearly indicate which question you are responding to.

1. What is the address of the local facility to provide installation, maintenance and warranty work on the equipment you are offering in the IFB?

DAVE BANG ASSOCIATES, INC., 140 N. GILBERT RD. MESA, AZ
85203

2. Do the tables (items #1 & 2) you are bidding meet all ADA requirements? Yes ☒ No ☐

3. Will you install all items or subcontract the service? If using a subcontractor, provide the name, address and telephone number.

PROFESSIONAL PLAYGROUND INSTALLERS
1548 E. MAIN ST., MESA, AZ 85203 PH: 480-464-2700

4. Who is the City's contact person in your firm? Provide the person's contact information.

JONATHAN MOUER 480-892-2266 cell: 602-571-5160

5. Provide three references to which you have provided similar products and services.

Company Name	Contact Person	Phone #
<u>CITY OF TEMPE</u>	<u>BOB POHLIT</u>	<u>480/390-5255</u>
<u>CITY OF PHOENIX</u>	<u>MARK LAWRENCE</u>	<u>602/495-5697</u>
<u>CITY OF MESA</u>	<u>JOAN LASTER</u>	<u>480/644-2882</u>

6. List all applicable warranties and guarantees.

5 YEAR WARRANTY ON PLASTISOL COATING
1 YEAR WARRANTY ON FRAME

7. What is your anticipated delivery time after receipt of order?

Item 1: 35 days

Item 2: 35 days

Item 3: 35 days

Item 4: 35 days

Item 5: 35 days

8. Have you included descriptive literature, proposed approved equal product specifications and the completed bid specifications (pages 21 thru 25) with your response? This is a requirement.

Yes ☒ No ☐

9. List all the different colors that are available for the tables, benches & trash receptacles you are bidding?

PLASTISOL COLORS: BEIGE, YELLOW, RED, TEAL, SLATE BLUE,
BLUE, PURPLE, BURGUNDY, CRANBERRY, KELLY GREEN, GREEN,
DARK BRONZE, BROWN, GRAY, BLACK

FRAME COLORS: ALL SAME PLUS WHITE, VANILLA AND ORANGE

IFB Checklist For Submittals

- ☒ One- (1) signed and complete original of the Bid response, including "Vendor's Bid Offer" (Form 201-B).
- ☒ The Bid Questionnaire has been completed and included
- ☒ Price Information completed and included.
- ☒ Any addendum(s) have been included
- ☒ Descriptive literature for all items bid has been included.
- ☒ Completed specification pages 21 thru 25 of this IFB have been included.

Company Name: DAVE BANG ASSOCIATES

PRICE SHEET

ITEM NO.	DESCRIPTION OF REQUIRED MATERIAL, SERVICE OR CONSTRUCTION	QTY	UNIT	UNIT PRICE	EXTENDED PRICE
1a.	7' Picnic Table, Wabash SY135/MC104 or approved equal <u>WABASH SY135D/MC104</u> Manufacturer & Model Number	17	Each	\$ <u>1,015.41</u>	\$ <u>17,261.97</u>
1b.	9' Picnic Table, Wabash SY140/MC104 or approved equal <u>WABASH SY140D/MC104</u> Manufacturer & Model Number	1	Each	\$ <u>1,228.87</u>	\$ <u>1,228.87</u>
1c.	11' Picnic Table, Wabash SY150/MC106 or approved equal <u>WABASH SY150D/MC106</u> Manufacturer & Model Number	38	Each	\$ <u>1,439.11</u>	\$ <u>54,686.18</u>
2a.	Game Table, Four (4) Seat, Wabash SP226/SP100 or approved equal <u>WABASH SP226D/SP100</u> Manufacturer & Model Number	2	Each	\$ <u>1,133.98</u>	\$ <u>2,267.96</u>
2b.	Game Table, Three (3) Seat, Wabash SP231/SP100 or approved equal <u>WABASH SP231D/SP100</u> Manufacturer & Model Number	2	Each	\$ <u>1,028.72</u>	\$ <u>2,057.44</u>
3.	Bench, Surface Mount, Wabash CN420/MC104 or approved equal <u>WABASH CN420D/MC104</u> Manufacturer & Model Number	6	Each	\$ <u>820.93</u>	\$ <u>4,925.58</u>

Company Name: DAVE BANG ASSOCIATES

PRICE SHEET

ITEM NO.	DESCRIPTION OF REQUIRED MATERIAL, SERVICE OR CONSTRUCTION	QTY	UNIT	UNIT PRICE	EXTENDED PRICE
4.	Bench, In-Ground Mount, Wabash CN430 or approved equal <u>WABASH CN430</u> Manufacturer & Model Number	16	Each	\$ <u>800.06</u>	\$ <u>12,800.96</u>
5.	Trash Receptacle, Surface or In-ground Mount, Wabash LR300/FT110/LR310/ LR100 or 105 or approved equal <u>WABASH LR300/FT110/LR310/LR100 or 105</u> Manufacturer & Model Number	22	Each	\$ <u>402.92</u>	\$ <u>8,864.24</u>

All-inclusive pricing to include delivery, installation and any applicable taxes.

* Applicable Tax 5.265%

THANK YOU FOR THIS CHANCE TO BID!

* **State correct jurisdiction to receive sales tax on the Vendor's Bid Offer, form CS-P201 (B) included in this Invitation for Bid document.**

Less prompt payments discount terms of 0 % days/ or Net 30 days. (To apply after receipt and acceptance of an itemized monthly statement.) For bid evaluation purposes, the City cannot utilize pricing discounts based upon payments being made in less than 30 days from receipt of statement.

Ordering and Invoice Instructions

In order to facilitate internal control and accounting, each City Department will order and must be invoiced separately. Monthly invoices must be segregated by City Department number and mailed or delivered directly to the City Customer Department. For most materials, there will be between three - (3) and six - (6) ordering departments. At the time an order is placed, the contractor must obtain the ordering department's cost center numbers for billing purposes. The use of the department's cost center numbers will be in addition to the purchase order number. Once a month, the contractor shall submit a consolidated statement which shall itemize the invoice numbers, invoice date, invoice amounts, and the total amount billed to Accounting. Discount offering will be based upon days from receipt of the consolidated monthly statement. Invoice(s) shall not show previous balances.

Company Name: DAVE BANG ASSOCIATES

PRICE SHEET

Invoices shall include:

1. Listing Of All Delivery/Pickup Receipt Numbers Being Invoiced.
2. Total Cost Per Item.
3. Applicable Tax.
4. Payment Terms.
5. Blanket Purchase Order Number.

Invoices that do not follow the above minimum invoicing requirements will not be paid. Payment must be applied to only invoices referenced on check/payment stub. The City reserves the right to bill contracted vendor for researching invoices that have been paid, but not properly applied by vendor account receivables office.

Statement mailing address: City of Tempe
Accounting (see below for your contact)
P.O. Box 5002
Tempe, Arizona 85280

Accounting Contacts:	Cecilia Miller	Letters A-C
	Ramona Zapien	Letters D-O
	Penny Brophy	Letters P-Z

(H:/IFB 3-2002)



SY225(D) with MC104
(Sold Separately)



SY150(D) with MC106
(Sold Separately)

DIAMOND (D)



PERFORATED (P)



Model	Description	Weight	Price	Weight	Price
SY135	7' Picnic Table - Portable/Surface-Mount	280 lb.	\$733.00	317 lb.	\$799.00
SY225	7' Picnic Table - In-Ground	307 lb.	798.00	344 lb.	858.00
SY140	9' Picnic Table - Portable/Surface-Mount	335 lb.	929.00	403 lb.	962.00
SY230	9' Picnic Table - In-Ground	362 lb.	965.00	430 lb.	1,013.00
SY150	11' Picnic Table - Portable/Surface-Mount	421 lb.	1,068.00	465 lb.	1,141.00
SY240	11' Picnic Table - In-Ground	462 lb.	1,119.00	506 lb.	1,211.00
Model	Accessories for items above (Pattern Options - Not Available)		Weight	Price	
UM300	Aluminum Terrace Shell (for use with garden umbrellas)		4 lb.	\$19.00	
UM305	Market Umbrella Stand (for use with market umbrellas)		47 lb.	95.00	
MC104	Mounting Plate Covers (set of 4)		4 lb.	35.00	
MC106	Mounting Plate Covers (set of 6)		6 lb.	53.00	

Surface and in-ground mounts must be adequately anchored. Specifications can be found on page 137.

TO ORDER: SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

QUICK SHIP
MODELS HIGHLIGHTED IN BLUE
SEE PAGE 7 FOR DETAILS

model no:

SY110D, SY110P, SY120D, SY120P, SY125D, SY125P,
SY135D, SY135P, SY140D, SY140P, SY150D, SY150P,
SY200D, SY200P, SY210D, SY210P, SY215D, SY215P,
SY225D, SY225P, SY230D, SY230P, SY240D, SY240P

SPYDER SERIES

~~46" ROUND, SQUARE & OCTAGON TABLES,~~
~~7', 9' & 11' PICNIC TABLES INGROUND & SURFACE MOUNT~~
~~EXPANDED METAL & PERFORATED~~



wabash valley



A DIVISION OF

BROWN JORDAN
INTERNATIONAL



SPYDER

© Wabash Valley Manufacturing, Inc.

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us 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)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

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.

TOPS

The picnic, octagon, and square tops use 3/4 #9 steel mesh for the expanded metal pattern and 12 gage sheet steel for the perforated pattern. The outside rails use 10 gage steel, while the mounting brackets are made of 1/4" flat bar stock. The support braces are made of 1/8" stripe steel and the umbrella collar is 14 gage tubing.

SEATS

The concave seats use 3/4 #9 steel mesh for the expanded metal pattern and 12 gage sheet steel for the perforated. 1/8" strip steel is used for the edging, and 1/4" flat bar for the mounting brackets.

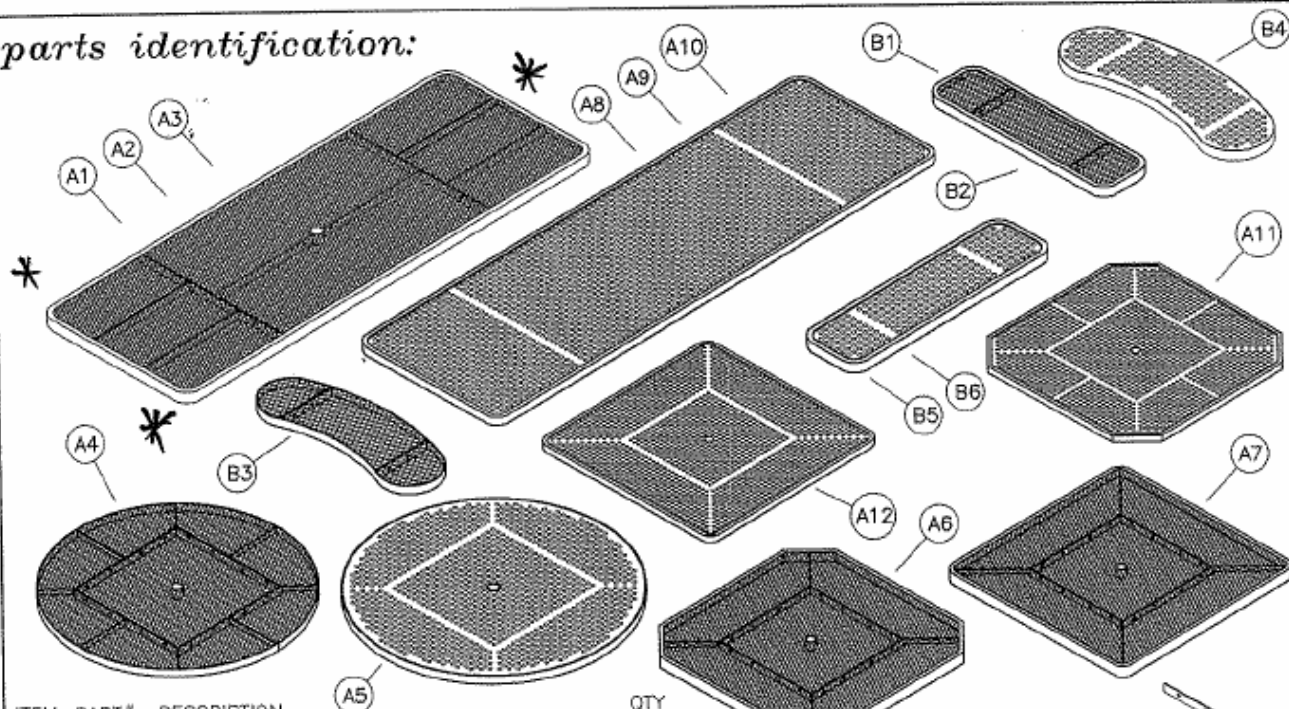
TABLE FRAME

The spyder legs are made of 12 gage x 2 7/8" od tubing. The brace mounting tab is 1/4" thick plate along with seat assembly mounting plate and female screw in attachment receiver. The 46" spyder leg uses a 1/4" flat bar for the mounting bracket, and the brace mounting tab is 7 gage plate. The surface mount plates are made of 1/4" x 6" steel plate. The inground screw in attachments are 12 gage x 2 7/8" tubing with a 7 gage insert, and 5/8" x threaded stud. The player braces are made of 15 gage x 1" od steel tubing. The spyder cross brace is of 16 gage x 1 1/4" od tubing with a 12 gage x 2 3/8" od center piece. The mounting plate covers are cast aluminum All tubing is galvanized.

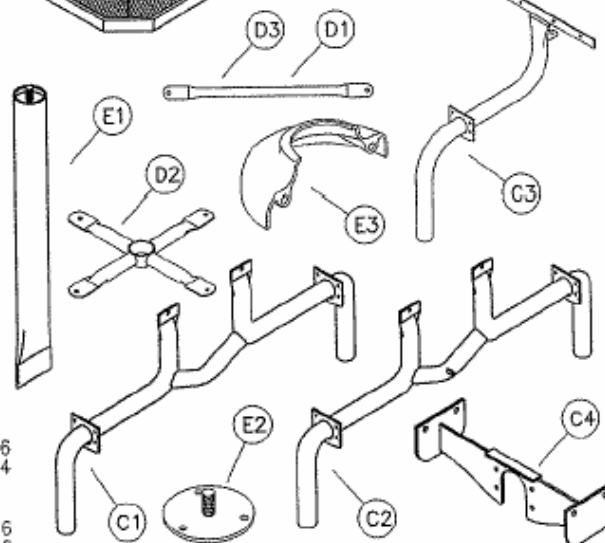
GENERAL

* SY135D, SY225D, SY135P and SY225P ground space requirements are 84 3/8" x 64 3/4". SY140D, SY230D, SY140P and SY230P ground space requirements are 108 3/8" x 64 3/8". SY150D, SY240D, SY150P and SY240P ground space requirements are 132 3/8" x 64 3/4". It is 30" to the table's top and 19" to the top of the seats. SY120D, SY125D, SY120P and SY125P ground space requirements are 73 3/4" square. SY110D and SY110P ground space requirements are 77 11/16" square. It is 29 3/16" to the top of the table and 19 13/16" to the top of the seats. SY210D, SY215D, SY210P and SY215P ground space requirements are 73 3/4" square. SY200D and SY200P ground space requirements are 77 11/16" square. It is 29 3/16" to the table's top and 19 13/16" to the top of the seats.

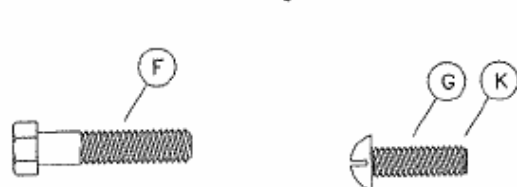
parts identification:



ITEM	PART#	DESCRIPTION	QTY
A1	7714	7' EXPANDED METAL PICNIC TOP	1
A2	7715	9' EXPANDED METAL PICNIC TOP	1
A3	7717	11' EXPANDED METAL PICNIC TOP	1
A4	7655	46" EXPANDED METAL ROUND TOP	1
A5	7976	46" PERFORATED ROUND TOP	1
A6	7505	46" EXPANDED METAL OCTAGON TOP	1
A7	7504R	46" EXPANDED METAL SQUARE TOP	1
A8	7957	11' PERFORATED PICNIC TOP	1
A9	7959	9' PERFORATED PICNIC TOP	1
A10	7962	7' PERFORATED PICNIC TOP	1
A11	7970	46" PERFORATED OCTAGON TOP	1
A12	7971	46" PERFORATED SQUARE TOP	1
B1	7530R	3' EXPANDED METAL SEAT	4
B2	7716	4' EXPANDED METAL SEAT	4
B3	7666	3' EXPANDED METAL CONCAVE SEAT	4
B4	8000	3' PERFORATED CONCAVE SEAT	4
B5	7996	4' PERFORATED RE SEAT	4
B6	7998	3' PERFORATED RE SEAT	4
C1	7205	PICNIC SPYDER LEG	2
C2	7234	PICNIC SPYDER CENTER LEG	1
C3	7206	46" SPYDER LEG	4
C4	7228	SPYDER LEG SEAT ASSEMBLY	4 OR 6
D1	7388	PLAYER BRACE	2 OR 4
D2	7207	SPYDER CROSS BRACE	1
D3	7255	9' TABLE BRACE	2
E1	7219	INGROUND SCREW IN ATTACHMENT	4 OR 6
E2	7256	SURFACE MOUNT SCREW IN ATTACHMENT	4 OR 6
E3	7121	MOUNTING PLATE COVERS (OPTIONAL)	4 OR 6



hardware identification:

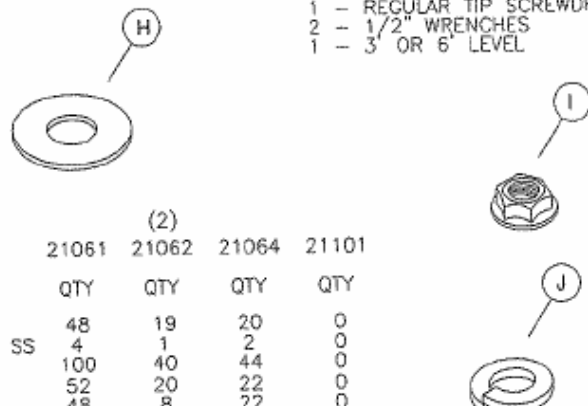


ITEMS IN HARDWARE PACKAGE #:

ITEM	PART#	DESCRIPTION
F	17011	5/16-18 x 1 1/2" HEX HEAD BOLT - SS
G	17088	5/16-18 x 1" TRUSS HEAD MACHINE SCREW - SS
H	17028	3/8" FLAT WASHER - SS
I	17032	5/16-18 FLANGE NUT - SS
J	17200	3/8" LOCK WASHER - SS
K	17052	1/4-20 x 1" MACHINE SCREW - SS

ASSEMBLY TOOLS REQUIRED

- 1 - REGULAR TIP SCREWDRIVER
- 2 - 1/2" WRENCHES
- 1 - 3' OR 6' LEVEL



	(2)	21061	21062	21064	21101
QTY	QTY	QTY	QTY	QTY	QTY
48	19	20	0		
4	1	2	0		
100	40	44	0		
52	20	22	0		
48	8	22	0		
0	0	0	4		

A1274H

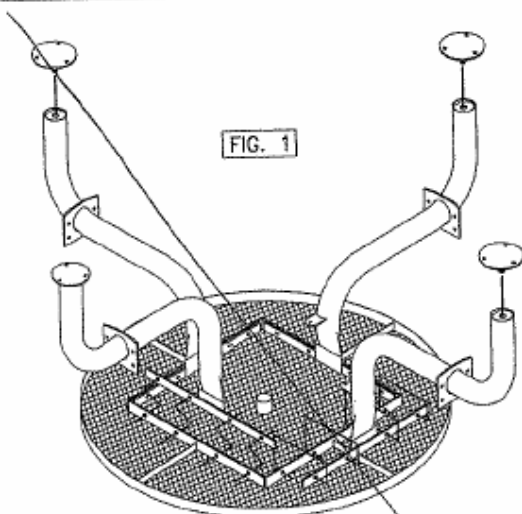
assembly procedures:

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

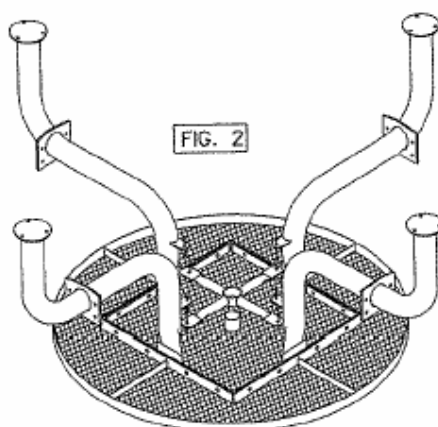
To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. Also please read the instructions 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 precut 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.

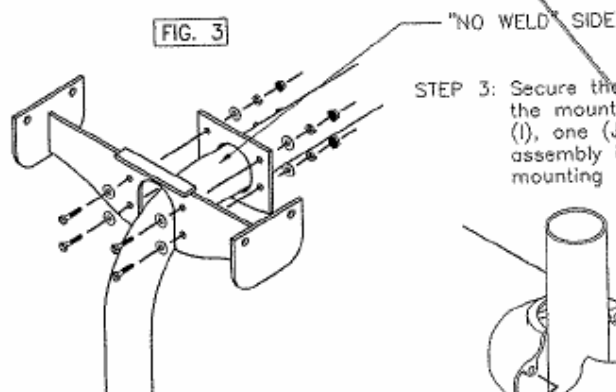
46" SPYDER TABLES



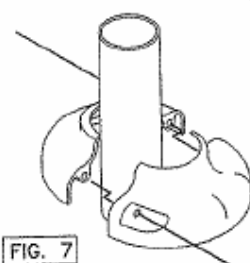
STEP 1: Invert top (A-) and secure spider legs (C3) to the inside of the top's mounting brackets using one (F), one (I) and two (H) per (F), see FIG. 1. Attach screw in attachment (E1) or (E2), see FIG. 1.



STEP 2: Attach spider cross brace (D3) to the inverted top side of the mounting tabs using one (G), one (I) and (H), see FIG. 2. After all parts have been secured carefully rotate the table to its upright position.

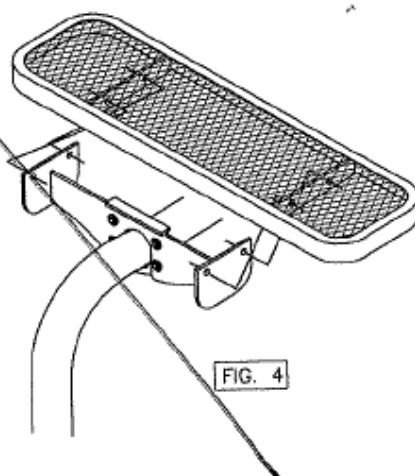


STEP 3: Secure the spider leg seat assembly (C4) to the outside of the mounting bracket on the spider leg (C-) using one (F), one (I), one (J) and two (H) per (F), see FIG. 3. NOTE: Be sure seat assembly is assembled to leg with "NO WELD" side against leg mounting plate.



STEP 4: Place the seat (B-) on the spider leg seat assembly (C4) so that the seat's mounting brackets are outside the seat assembly's mounting brackets, see FIG. 4. Secure using one (F), one (I) and two (H) per (F). Level all seats and top, and tighten with proper wrenches.

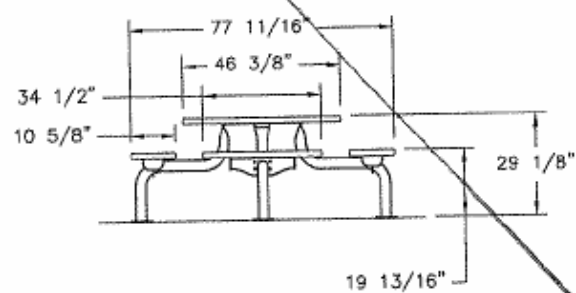
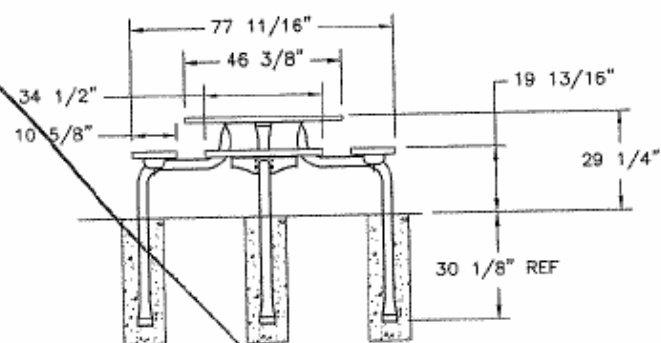
If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit being careful not to over tighten.



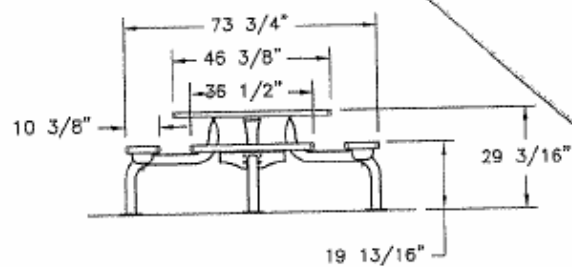
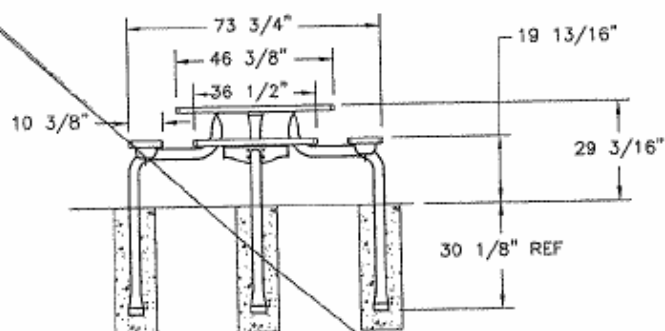
installation: WARNING: The proper installation for Wabash Valley products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

product dimensions:

46" ROUND WITH CONCAVE SEATS

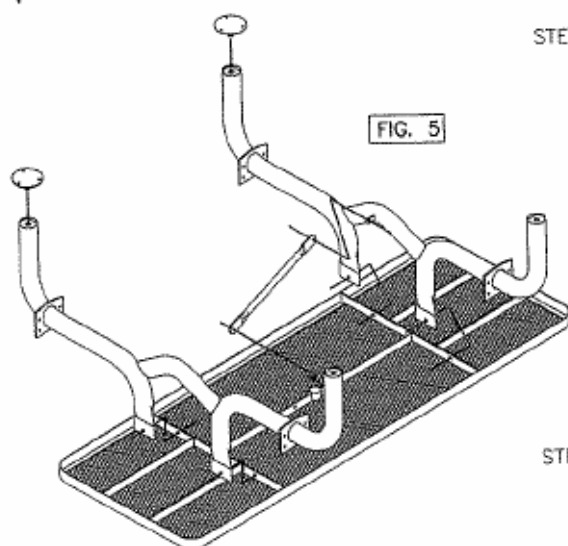


46" SQUARE/OCTAGON WITH RECTANGULAR SEATS



assembly procedures cont:

7' AND 9' SPYDER TABLES



STEP 1: Invert top (A-) and secure spyder legs (C1) to the outside of the tops mounting bracket using one (F), one (I) and two (H) per (F). Attach brace (D1) for 7' top, (D3) for 9' top, to the spyder leg tab using one (G), one (I), two (H). Attach the other end of the brace (D1) or (D3) to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 5. After all parts have been secured carefully rotate table to it's upright position.

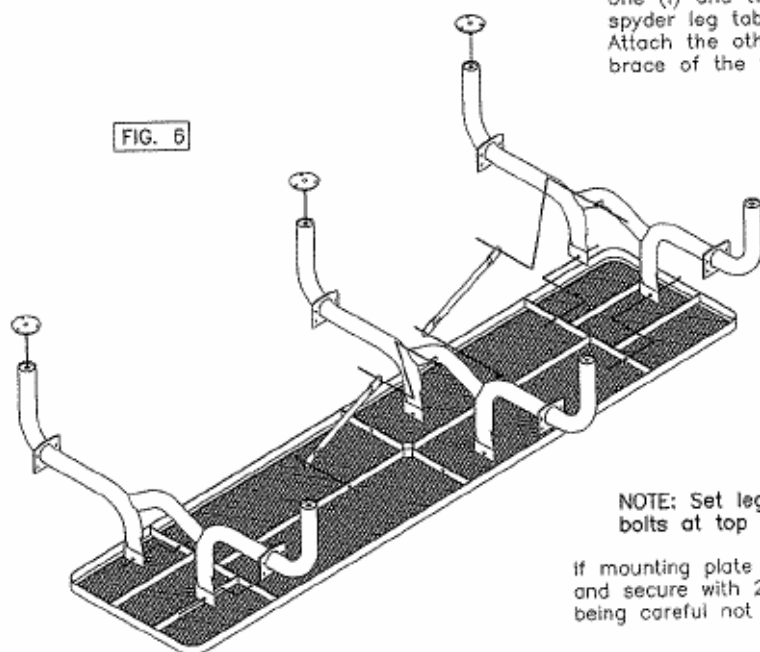
NOTE: Set legs vertically at 90 degrees prior to tightening bolts at top and brace locations.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit, being careful not to over tighten.

STEP 2: Follow Steps 3 and 4, FIG. 3 & 4, on page 3 to finish the assembly of the 7' and 9' Spyder Tables.

11' SPYDER TABLES

FIG. 6



STEP 1: Invert top (A-) and secure spyder legs (C1) to the outside of the tops mounting bracket using one (F), one (I) and two (H) per (F). Attach brace (D1) to the spyder leg tab using one (G), one (I) and two (H). Attach the other end of the brace to the center support brace of the top using one (F), one (I) and two (H).

STEP 2: Attach spyder center leg (C2) using one (F), one (I) and two (H) per (F). Attach brace (D1) to the spyder center leg tabs using one (G), one (I) and two (H). Attach the other end of the brace to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 6. After all parts have been secured carefully rotate table to it's upright position.

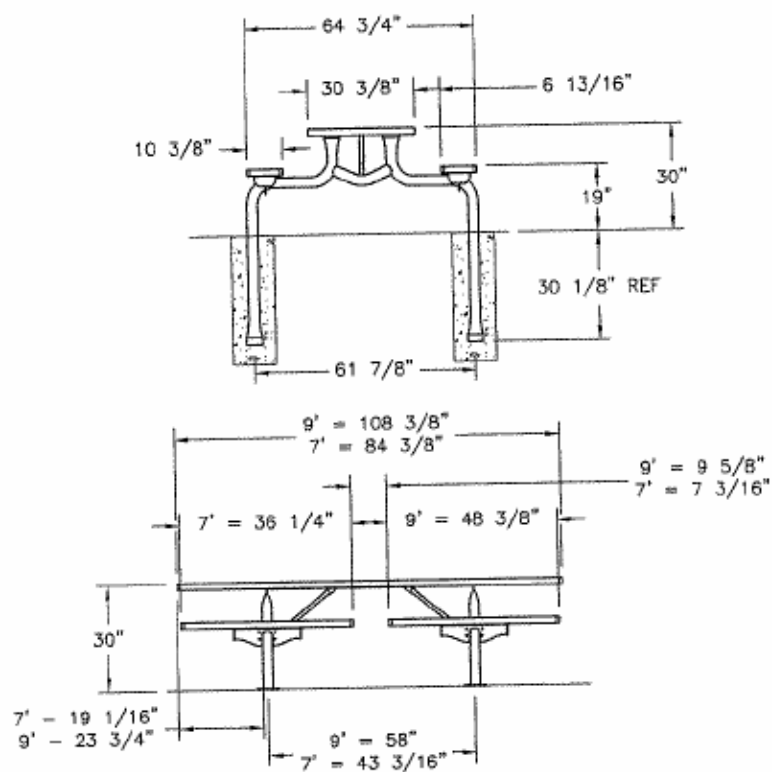
NOTE: Set legs vertically at 90 degrees prior to tightening bolts at top and brace locations.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit being careful not to over tighten.

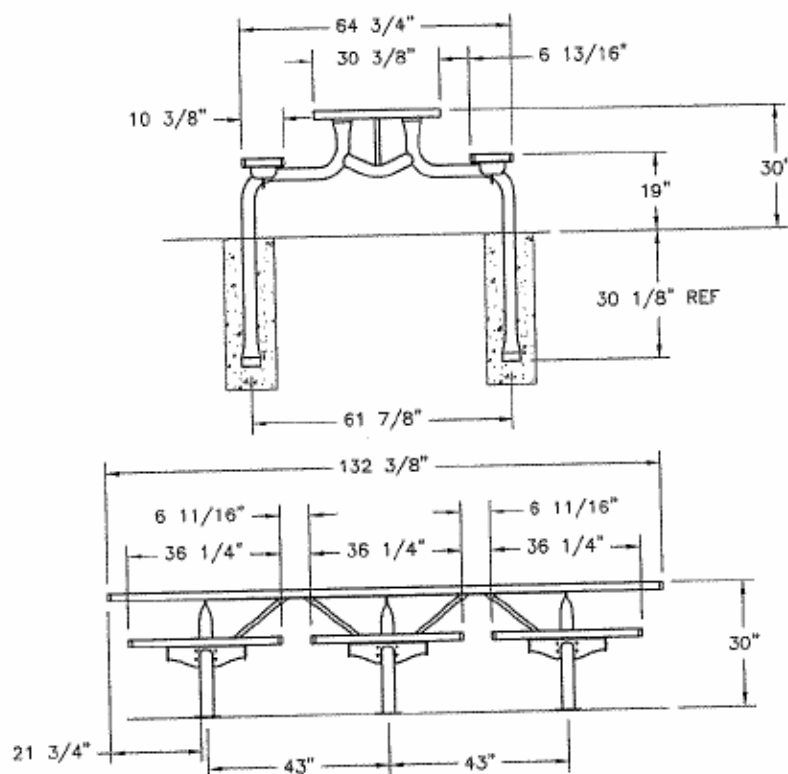
STEP 3: Follow Steps 3 and 4, FIG. 3 & 4, on page 3 to finish the assembly of the 11' Spyder Table.

product dimensions:

7' AND 9' SPYDER PICNIC TABLE

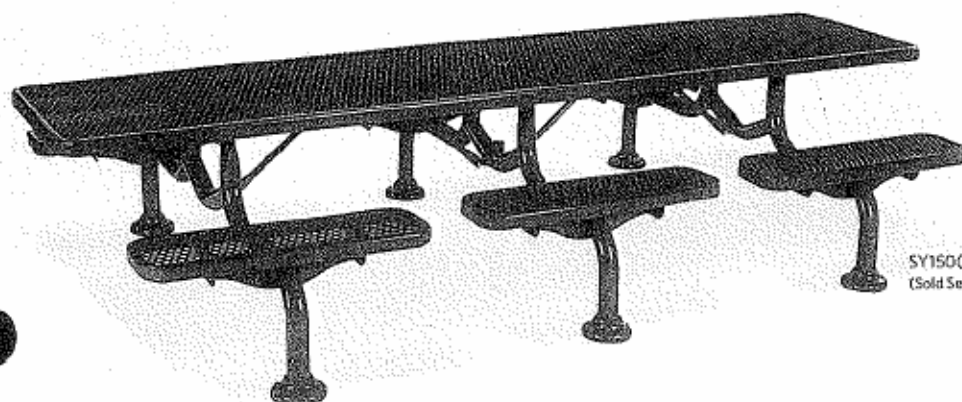


11' SPYDER PICNIC TABLE





SY225(D) with MC104
(Sold Separately)



SY150(D) with MC106
(Sold Separately)

Model	Description	DIAMOND (D)		PERFORATED (P)	
		Weight	Price	Weight	Price
SY135	7' Picnic Table - Portable/Surface-Mount	280 lb.	\$733.00	317 lb.	\$799.00
SY225	7' Picnic Table - In-Ground	307 lb.	798.00	344 lb.	858.00
SY140	9' Picnic Table - Portable/Surface-Mount	335 lb.	929.00	403 lb.	962.00
SY230	9' Picnic Table - In-Ground	362 lb.	965.00	430 lb.	1,013.00
SY150	11' Picnic Table - Portable/Surface-Mount	421 lb.	1,068.00	465 lb.	1,141.00
SY240	11' Picnic Table - In-Ground	462 lb.	1,119.00	506 lb.	1,211.00
Model	Accessories for items above (Pattern Options - Not Available)			Weight	Price
UM300	Aluminum Terrace Shell (for use with garden umbrellas)			4 lb.	\$19.00
UM305	Market Umbrella Stand (for use with market umbrellas)			47 lb.	95.00
MC104	Mounting Plate Covers (set of 4)			4 lb.	35.00
MC106	Mounting Plate Covers (set of 6)			6 lb.	53.00

Surface and in-ground mounts must be adequately anchored. Specifications can be found on page 137.

TO ORDER: SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

QuickShip
MODELS HIGHLIGHTED IN BLUE
SEE PAGE 1 FOR DETAILS

model no:

SY110D, SY110P, SY120D, SY120P, SY125D, SY125P,
SY135D, SY135P, SY140D, SY140P, SY150D, SY150P,
SY200D, SY200P, SY210D, SY210P, SY215D, SY215P,
SY225D, SY225P, SY230D, SY230P, SY240D, SY240P

SPYDER SERIES

~~46" ROUND, SQUARE & OCTAGON TABLES,
7', 9' & 11' PICNIC TABLES INGROUND & SURFACE MOUNT
EXPANDED METAL & PERFORATED~~



© Wabash Valley Manufacturing, Inc.

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us 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)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

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.

TOPS

The picnic, octagon, and square tops use 3/4" #9 steel mesh for the expanded metal pattern and 12 gage sheet steel for the perforated pattern. The outside rails use 10 gage steel, while the mounting brackets are made of 1/4" flat bar stock. The support braces are made of 1/8" stripe steel and the umbrella collar is 14 gage tubing.

SEATS

The concave seats use 3/4" #9 steel mesh for the expanded metal pattern and 12 gage sheet steel for the perforated. 1/8" strip steel is used for the edging, and 1/4" flat bar for the mounting brackets.

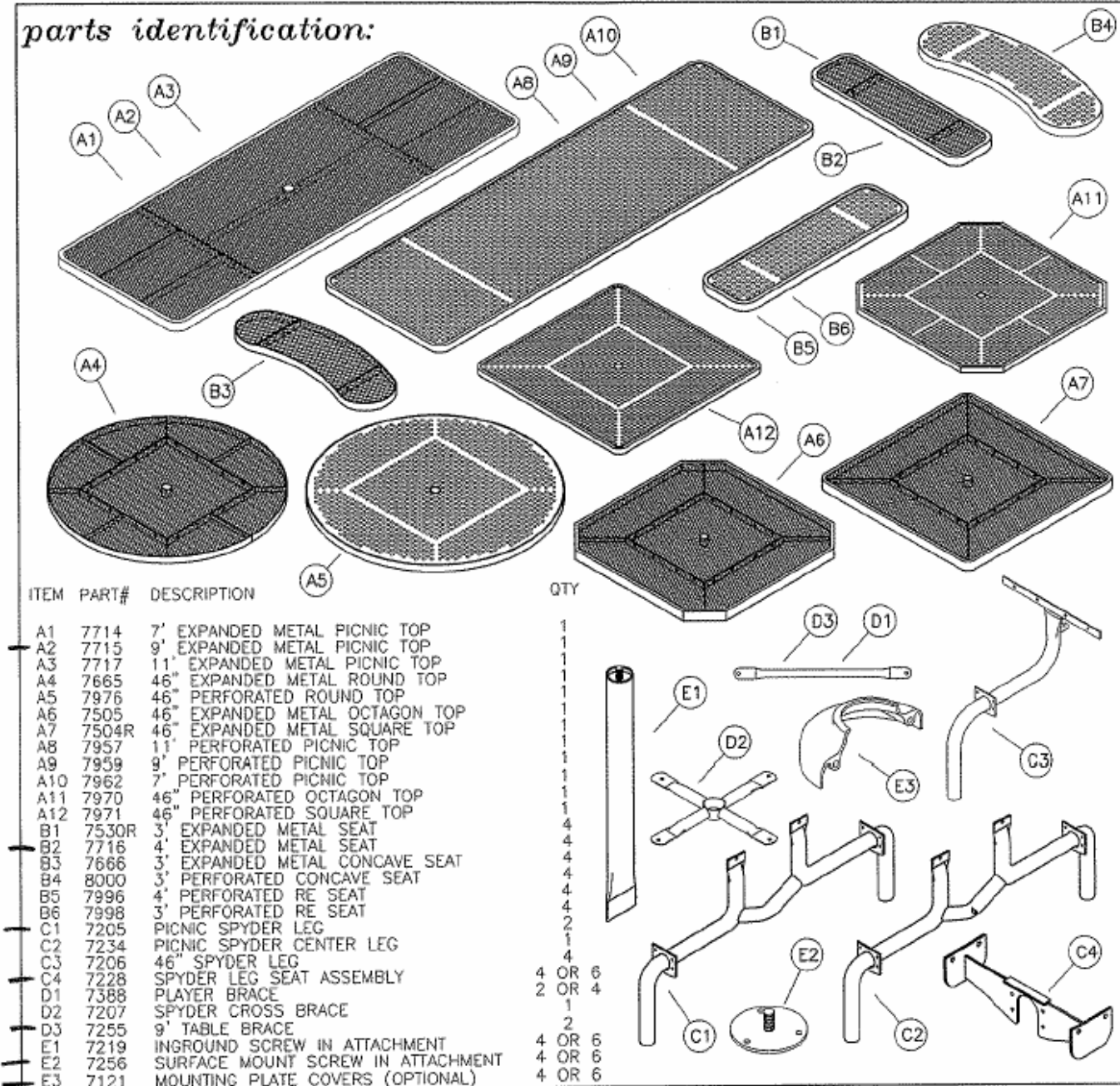
TABLE FRAME

The spyder legs are made of 12 gage x 2 7/8" od tubing. The brace mounting tab is 1/4" thick plate along with seat assembly mounting plate and female screw in attachment receiver. The 46" spyder leg uses a 1/4" flat bar for the mounting bracket, and the brace mounting tab is 7 gage plate. The surface mount plates are made of 1/4" x 6" steel plate. The inground screw in attachments are 12 gage x 2 7/8" tubing with a 7 gage insert, and 5/8" threaded stud. The player braces are made of 15 gage x 1" od steel tubing. The spyder cross brace is of 16 gage x 1 1/4" od tubing with a 12 gage x 2 3/8" od center piece. The mounting plate covers are cast aluminum. All tubing is galvanized.

GENERAL

SY135D, SY225D, SY135P and SY225P ground space requirements, are 84 3/8" x 64 3/4". SY140D, SY230D, SY140P and SY230P ground space requirements are 108 3/8" x 64 3/8". SY150D, SY240D, SY150P and SY240P ground space requirements are 132 3/8" x 64 3/4". It is 30" to the table's top and 19" to the top of the seats. SY120D, SY125D, SY120P and SY125P ground space requirements are 73 3/4" square. SY110D and SY110P ground space requirements are 77 11/16" square. It is 29 3/16" to the top of the table and 19 13/16" to the top of the seats. SY210D, SY215D, SY210P and SY215P ground space requirements are 73 3/4" square. SY200D and SY200P ground space requirements are 77 11/16" square. It is 29 3/16" to the table's top and 19 13/16" to the top of the seats.

parts identification:



hardware identification:

ASSEMBLY TOOLS REQUIRED

- 1 - REGULAR TIP SCREWDRIVER
- 2 - 1/2" WRENCHES
- 1 - 3' OR 6' LEVEL

ITEMS IN HARDWARE PACKAGE #:

ITEM	PART#	DESCRIPTION	QTY	21061	21062	21064	21101
F	17011	5/16-18 x 1 1/2" HEX HEAD BOLT - SS	48	19	20	0	0
G	17088	5/16-18 x 1" TRUSS HEAD MACHINE SCREW - SS	4	1	2	0	0
H	17028	3/8" FLAT WASHER - SS	100	40	44	0	0
I	17032	5/16-18 FLANGE NUT - SS	52	20	22	0	0
J	17200	3/8" LOCK WASHER - SS	48	8	22	0	0
K	17052	1/4-20 x 1" MACHINE SCREW - SS	0	0	0	4	4

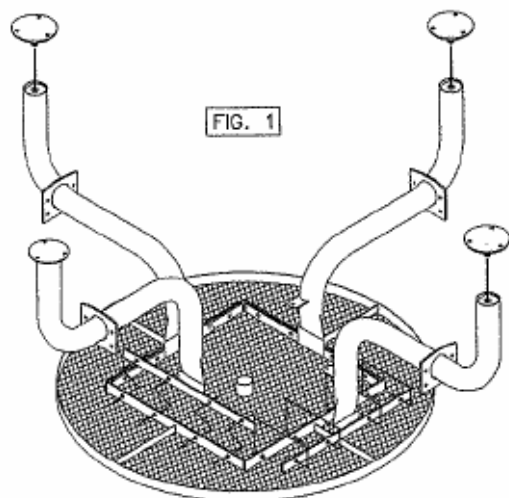
assembly procedures:

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

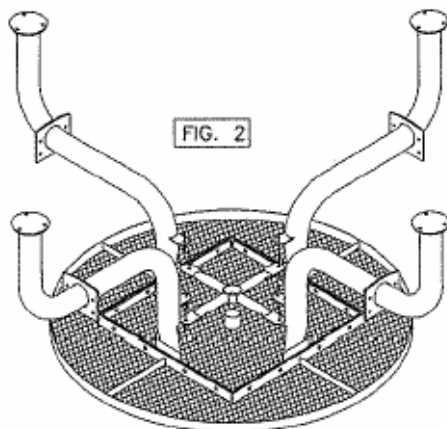
To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. Also please read the instructions 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.

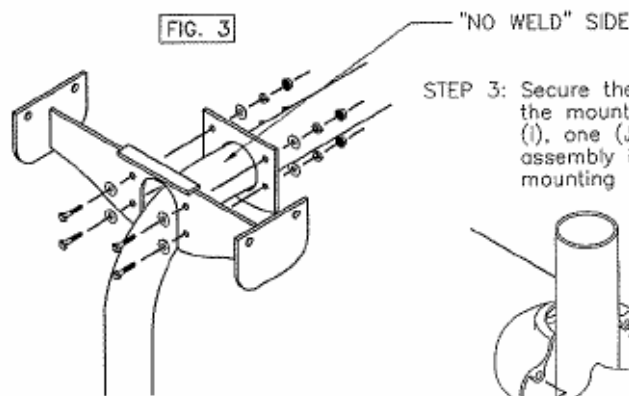
46" SPYDER TABLES



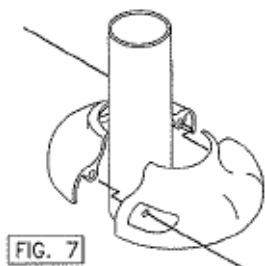
STEP 1: Invert top (A-) and secure spider legs (C3) to the inside of the top's mounting brackets using one (F), one (I) and two (H) per (F), see FIG. 1. Attach screw in attachment (E1) or (E2), see FIG. 1.



STEP 2: Attach spider cross brace (D2) to the inverted top side of the mounting tabs using one (G), one (I) and (H), see FIG. 2. After all parts have been secured carefully rotate the table to its upright position.

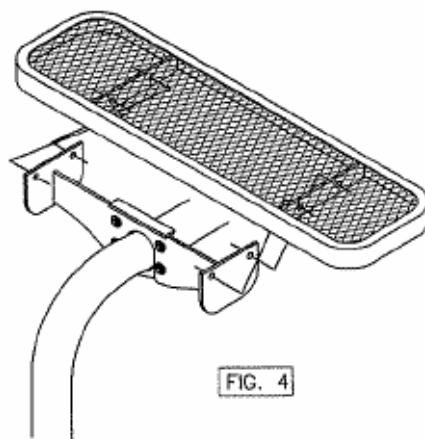


STEP 3: Secure the spider leg seat assembly (C4) to the outside of the mounting bracket on the spider leg (C-) using one (F), one (I), one (J) and two (H) per (F), see FIG. 3. NOTE: Be sure seat assembly is assembled to leg with "NO WELD" side against leg mounting plate.



STEP 4: Place the seat (B-) on the spider leg seat assembly (C4) so that the seat's mounting brackets are outside the seat assembly's mounting brackets, see FIG. 4. Secure using one (F), one (I) and two (H) per (F). Level all seats and top, and tighten with proper wrenches.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit being careful not to over tighten.

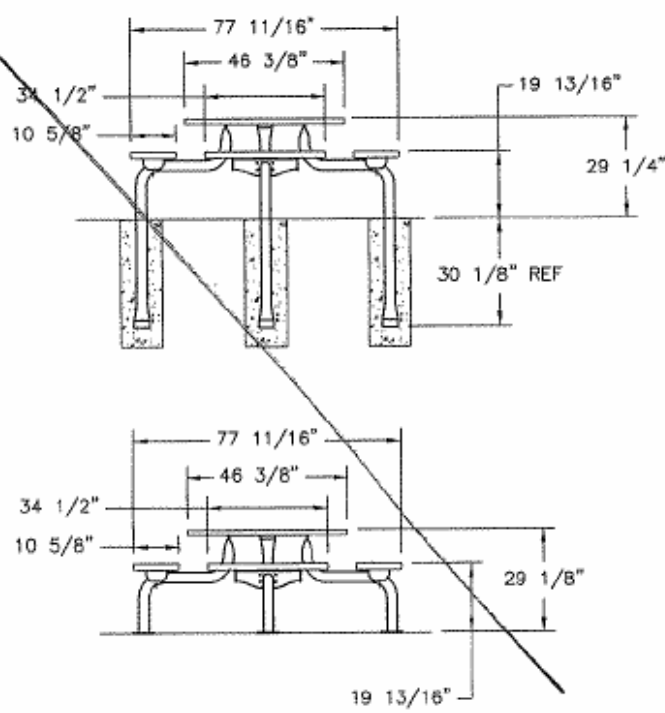


installation:

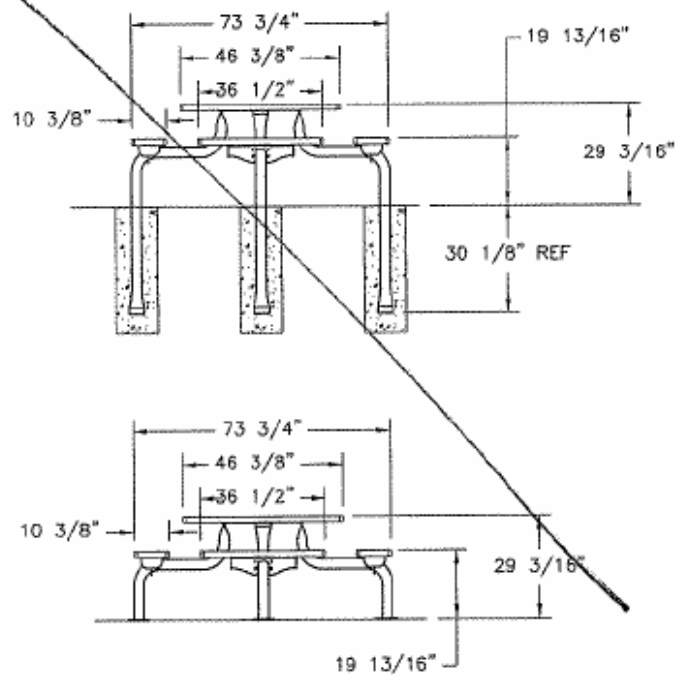
WARNING: The proper installation for Wabash Valley products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

product dimensions:

46" ROUND WITH CONCAVE SEATS

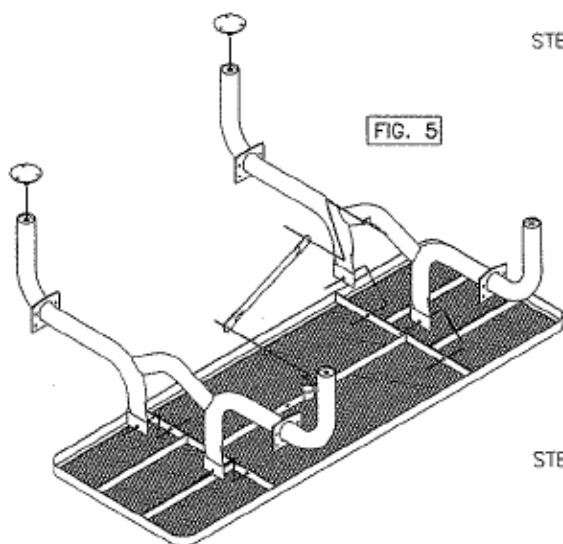


46" SQUARE/OCTAGON WITH RECTANGULAR SEATS



assembly procedures cont:

7' AND 9' SPYDER TABLES



STEP 1: Invert top (A-) and secure spyder legs (C1) to the outside of the tops mounting bracket using one (F), one (I) and two (H) per (F). Attach brace (D1) for 7' top, (D3) for 9' top, to the spyder leg tab using one (G), one (I), two (H). Attach the other end of the brace (D1) or (D3) to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 5. After all parts have been secured carefully rotate table to it's upright position.

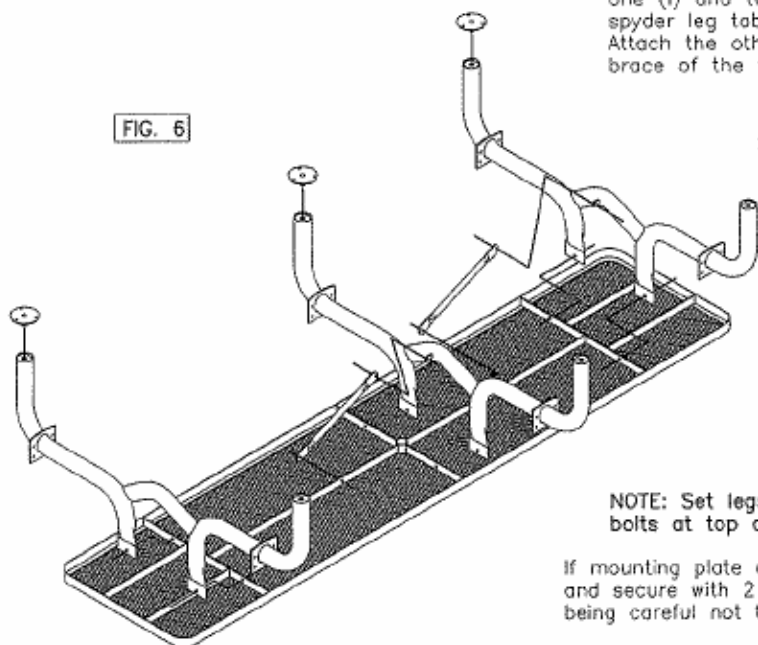
NOTE: Set legs vertically at 90 degrees prior to tightening bolts at top and brace locations.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit, being careful not to over tighten.

STEP 2: Follow Steps 3 and 4, FIG. 3 & 4, on page 3 to finish the assembly of the 7' and 9' Spyder Tables.

11' SPYDER TABLES

FIG. 6



STEP 1: Invert top (A-) and secure spyder legs (C1) to the outside of the tops mounting bracket using one (F), one (I) and two (H) per (F). Attach brace (D1) to the spyder leg tab using one (G), one (I) and two (H). Attach the other end of the brace to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 6. After all parts have been secured carefully rotate table to it's upright position.

STEP 2: Attach spyder center leg (C2) using one (F), one (I) and two (H) per (F). Attach brace (D1) to the spyder center leg tabs using one (G), one (I) and two (H). Attach the other end of the brace to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 6. After all parts have been secured carefully rotate table to it's upright position.

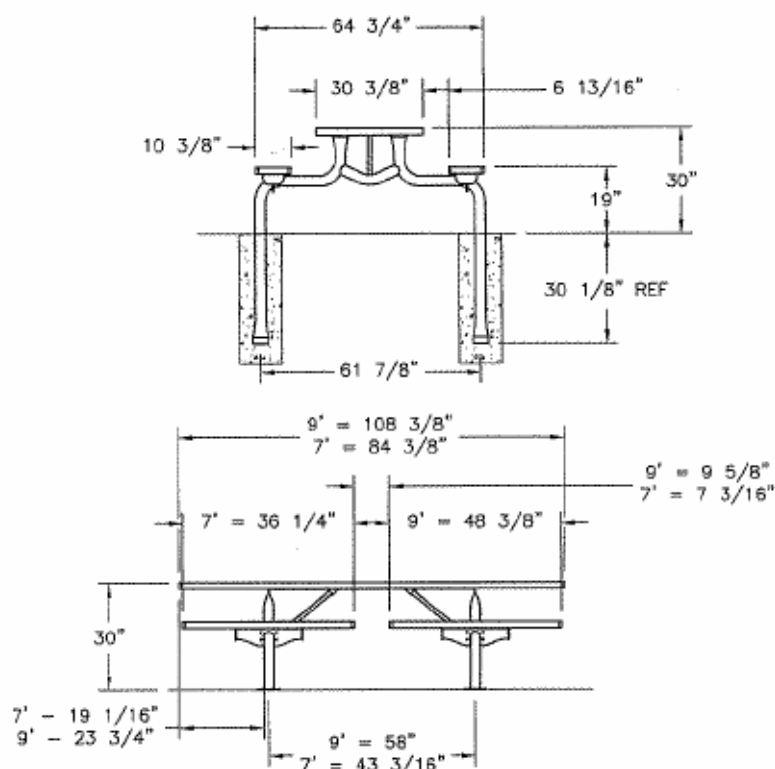
NOTE: Set legs vertically at 90 degrees prior to tightening bolts at top and brace locations.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit being careful not to over tighten.

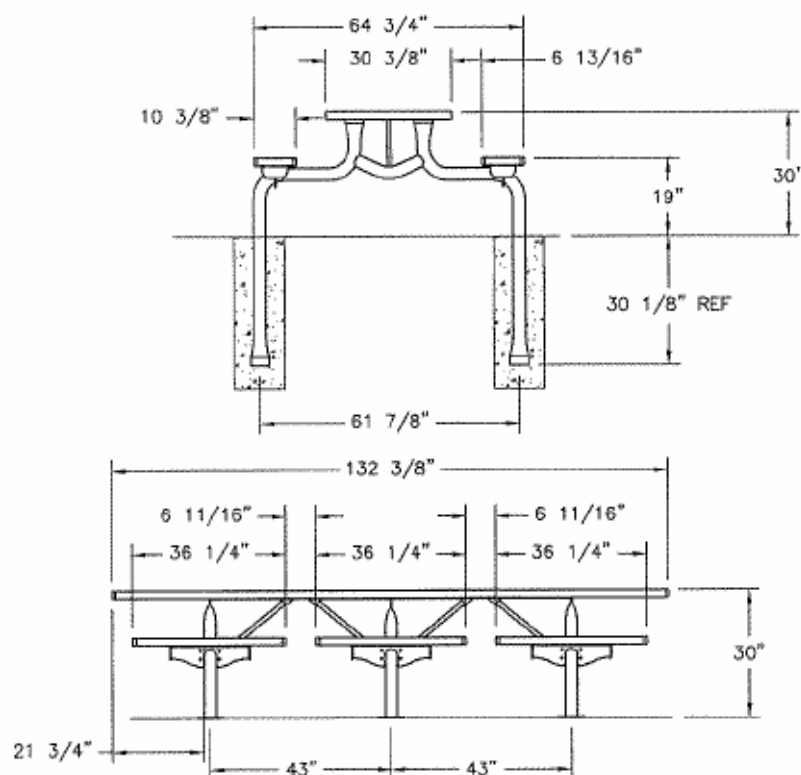
STEP 3: Follow Steps 3 and 4, FIG. 3 & 4, on page 3 to finish the assembly of the 11' Spyder Table.

product dimensions:

7' AND 9' SPYDER PICNIC TABLE



11' SPYDER PICNIC TABLE





SY225(D) with MC104
(Sold Separately)



SY150(D) with MC106
(Sold Separately)

Model	Description	DIAMOND (D)		PERFORATED (P)	
		Weight	Price	Weight	Price
SY135	7' Picnic Table - Portable/Surface-Mount	280 lb.	\$733.00	317 lb.	\$799.00
SY225	7' Picnic Table - In-Ground	307 lb.	798.00	344 lb.	858.00
SY140	9' Picnic Table - Portable/Surface-Mount	335 lb.	929.00	403 lb.	962.00
SY230	9' Picnic Table - In-Ground	362 lb.	965.00	430 lb.	1,013.00
SY150	11' Picnic Table - Portable/Surface-Mount	421 lb.	1,068.00	465 lb.	1,141.00
SY240	11' Picnic Table - In-Ground	462 lb.	1,119.00	506 lb.	1,211.00
Accessories for items above (Pattern Options - Not Available)				Weight	Price
UM300	Aluminum Terrace Shell (for use with garden umbrellas)			4 lb.	\$19.00
UM305	Market Umbrella Stand (for use with market umbrellas)			47 lb.	95.00
MC104	Mounting Plate Covers (set of 4)			4 lb.	35.00
MC106	Mounting Plate Covers (set of 6)			6 lb.	53.00

Surface and in-ground mounts must be adequately anchored. Specifications can be found on page 137.

TO ORDER: SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

QUICK SHIP
MODELS HIGHLIGHTED IN BLUE
SEE PAGE 7 FOR DETAILS

model no:

SY110D, SY110P, SY120D, SY120P, SY125D, SY125P,
SY135D, SY135P, SY140D, SY140P, SY150D, SY150P,
SY200D, SY200P, SY210D, SY210P, SY215D, SY215P,
SY225D, SY225P, SY230D, SY230P, SY240D, SY240P

SPYDER SERIES

~~46" ROUND, SQUARE & OCTAGON TABLES,~~
~~7', 9' & 11' PICNIC TABLES INGROUND & SURFACE MOUNT~~
~~EXPANDED METAL & PERFORATED~~



© Wabash Valley Manufacturing, Inc.

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us 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)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

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.

TOPS

The picnic, octagon, and square tops use 3/4 #9 steel mesh for the expanded metal pattern and 12 gage sheet steel for the perforated pattern. The outside rails use 10 gage steel, while the mounting brackets are made of 1/4" flat bar stock. The support braces are made of 1/8" stripe steel and the umbrella collar is 14 gage tubing.

SEATS

The concave seats use 3/4 #9 steel mesh for the expanded metal pattern and 12 gage sheet steel for the perforated. 1/8" strip steel is used for the edging, and 1/4" flat bar for the mounting brackets.

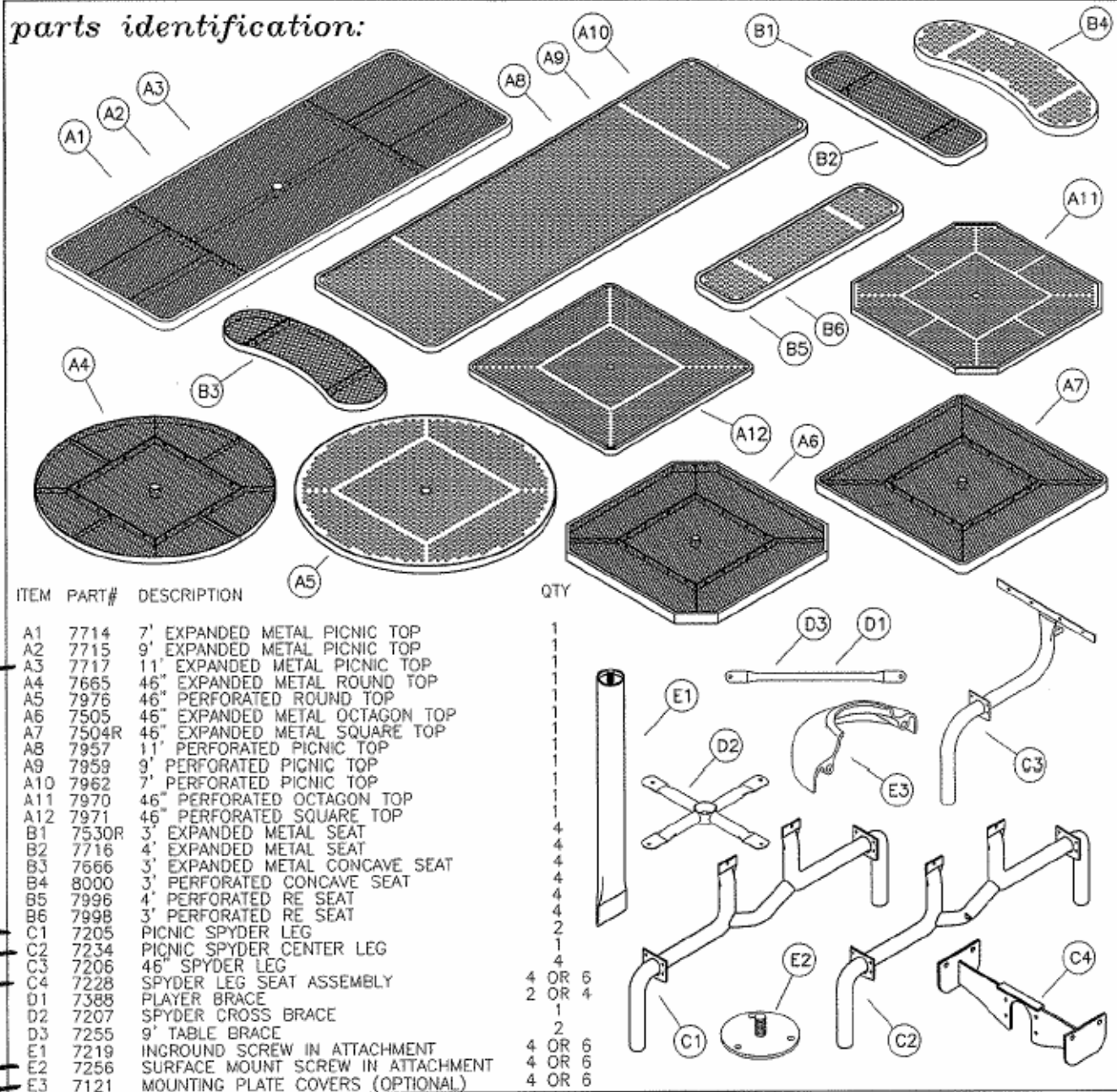
TABLE FRAME

The spyder legs are made of 12 gage x 2 7/8" od tubing. The brace mounting tab is 1/4" thick plate along with seat assembly mounting plate and female screw in attachment receiver. The 46" spyder leg uses a 1/4" flat bar for the mounting bracket, and the brace mounting tab is 7 gage plate. The surface mount plates are made of 1/4" x 6" steel plate. The inground screw in attachments are 12 gage x 2 7/8" tubing with a 7 gage insert, and 5/8" threaded stud. The player braces are made of 15 gage x 1" od steel tubing. The spyder cross brace is of 16 gage x 1 1/4" od tubing with a 12 gage x 2 3/8" od center piece. The mounting plate covers are cast aluminum All tubing is galvanized.

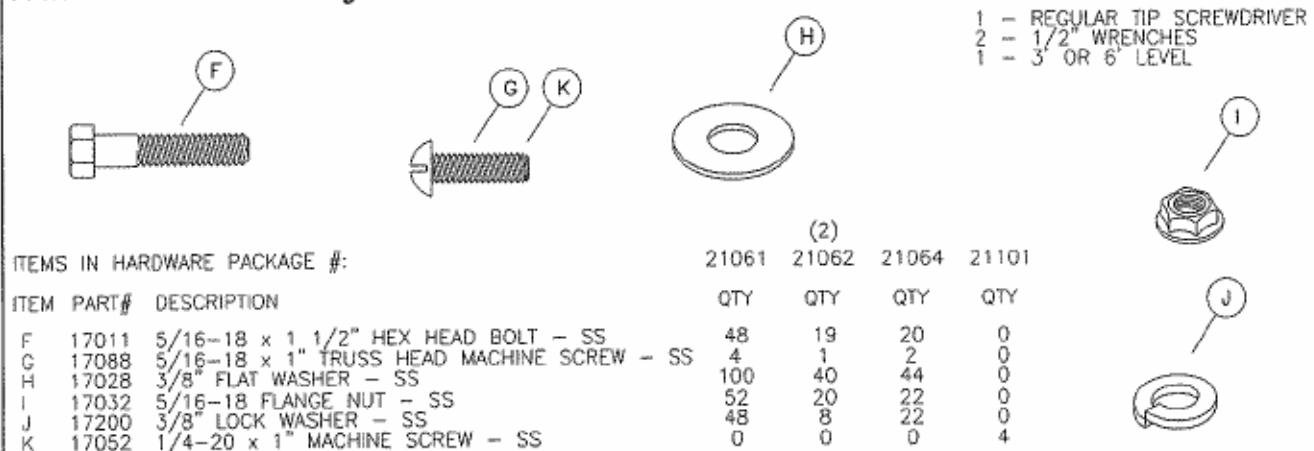
GENERAL

SY135D, SY225D, SY135P and SY225P ground space requirements are 84 3/8" x 64 3/4". SY140D, SY230D, SY140P and SY230P ground space requirements are 108 3/8" x 64 3/8". SY150D, SY240D, SY150P and SY240P ground space requirements are 132 3/8" x 64 3/4". It is 30" to the table's top and 19" to the top of the seats. SY120D, SY125D, SY120P and SY125P ground space requirements are 73 3/4" square. SY110D and SY110P ground space requirements are 77 11/16" square. It is 29 3/16" to the top of the table and 19 13/16" to the top of the seats. SY210D, SY215D, SY210P and SY215P ground space requirements are 73 3/4" square. SY200D and SY200P ground space requirements are 77 11/16" square. It is 29 3/16" to the table's top and 19 13/16" to the top of the seats.

parts identification:



hardware identification:



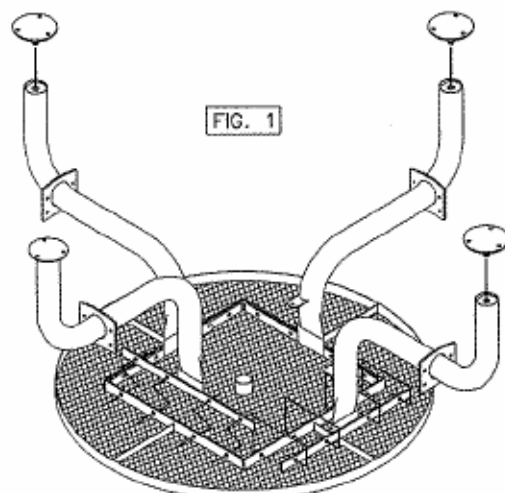
assembly procedures:

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

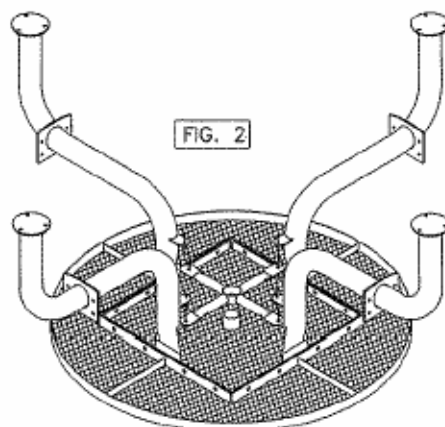
To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. Also please read the instructions 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 precut 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.

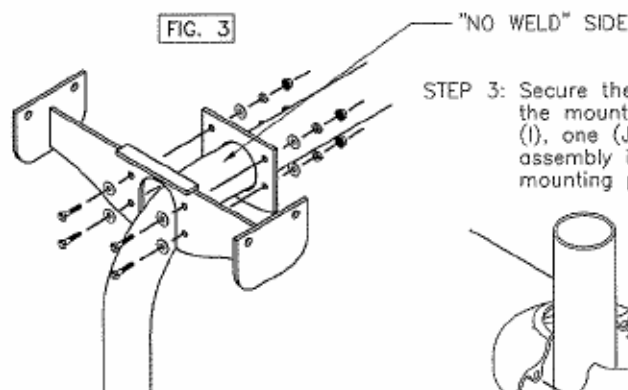
46" SPYDER TABLES



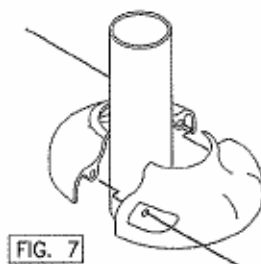
STEP 1: Invert top (A-) and secure spider legs (C3) to the inside of the top's mounting brackets using one (F), one (I) and two (H) per (F), see FIG. 1. Attach screw in attachment (E1) or (E2), see FIG. 1.



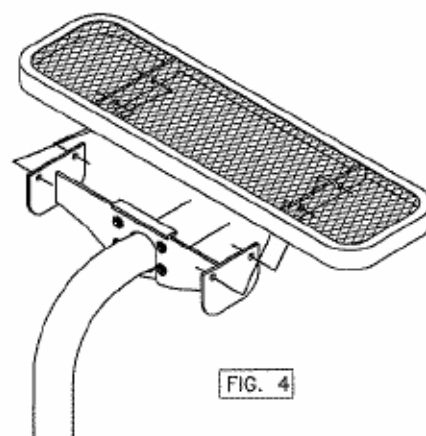
STEP 2: Attach spider cross brace (D2) to the inverted top side of the mounting tabs using one (G), one (I) and (H), see FIG. 2. After all parts have been secured carefully rotate the table to its upright position.



STEP 3: Secure the spider leg seat assembly (C4) to the outside of the the mounting bracket on the spider leg (C-) using one (F), one (I), one (J) and two (H) per (F), see FIG. 3. NOTE: Be sure seat assembly is assembled to leg with "NO WELD" side against leg mounting plate.



STEP 4: Place the seat (B-) on the spider leg seat assembly (C4) so that the seat's mounting brackets are outside the seat assembly's mounting brackets, see FIG. 4. Secure using one (F), one (I) and two (H) per (F). Level all seats and top, and tighten with proper wrenches.

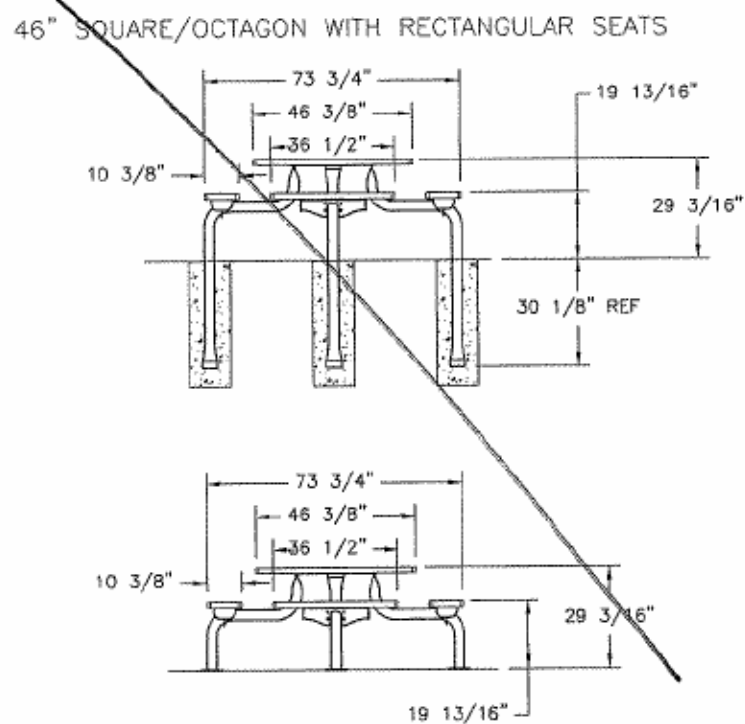
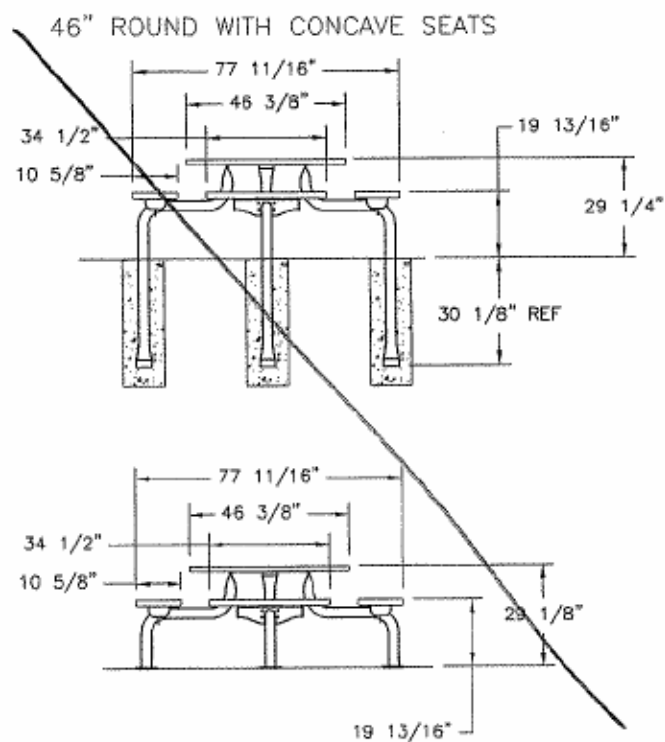


If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit being careful not to over tighten.

installation:

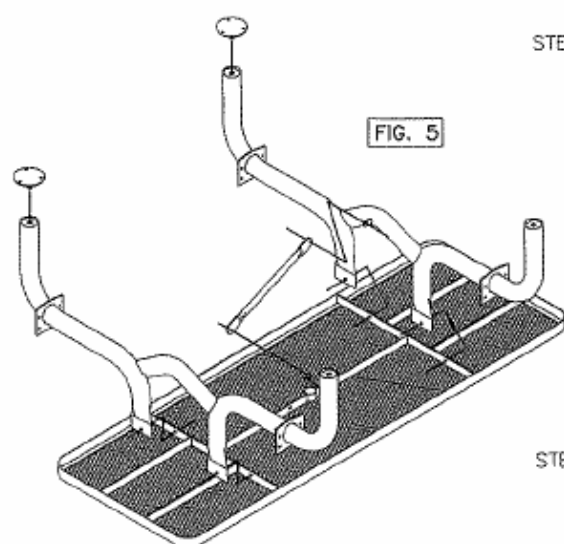
WARNING: The proper installation for Wabash Valley products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

product dimensions:



assembly procedures cont:

7' AND 9' SPYDER TABLES



STEP 1: Invert top (A-) and secure spider legs (C1) to the outside of the tops mounting bracket using one (F), one (I) and two (H) per (F). Attach brace (D1) for 7' top, (D3) for 9' top, to the spider leg tab using one (G), one (I), two (H). Attach the other end of the brace (D1) or (D3) to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 5. After all parts have been secured carefully rotate table to it's upright position.

NOTE: Set legs vertically at 90 degrees prior to tightening bolts at top and brace locations.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit, being careful not to over tighten.

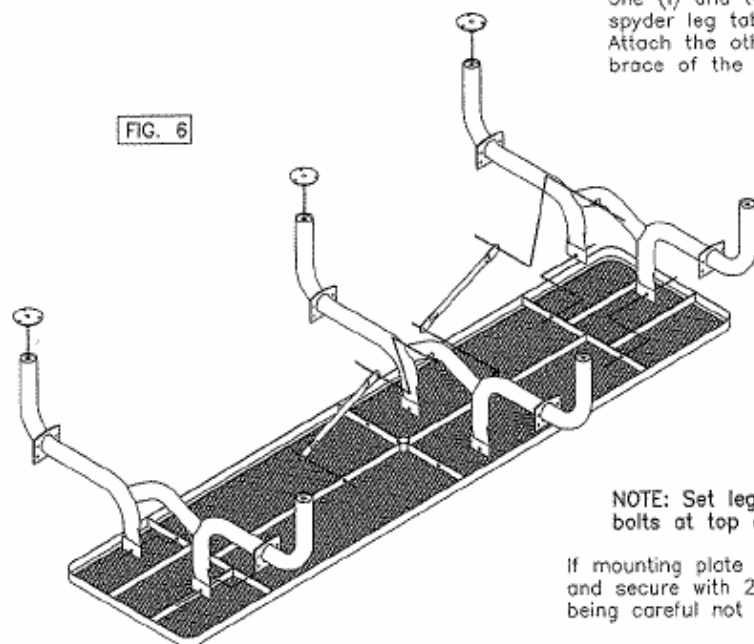
STEP 2: Follow Steps 3 and 4, FIG. 3 & 4, on page 3 to finish the assembly of the 7' and 9' Spyder Tables.



11' SPYDER TABLES



FIG. 6



STEP 1: Invert top (A-) and secure spider legs (C1) to the outside of the tops mounting bracket using one (F), one (I) and two (H) per (F). Attach brace (D1) to the spider leg tab using one (G), one (I) and two (H). Attach the other end of the brace to the center support brace of the top using one (F), one (I) and two (H).

STEP 2: Attach spider center leg (C2) using one (F), one (I) and two (H) per (F). Attach brace (D1) to the spider center leg tabs using one (G), one (I) and two (H). Attach the other end of the brace to the center support brace of the top using one (F), one (I) and two (H). Attach screw in attachments (E1 or E2), see FIG. 6. After all parts have been secured carefully rotate table to it's upright position.

NOTE: Set legs vertically at 90 degrees prior to tightening bolts at top and brace locations.

If mounting plate covers (E3) are used, place halves around legs and secure with 2 (K) screws, see FIG. 7. Draw to a snug fit being careful not to over tighten.

STEP 3: Follow Steps 3 and 4, FIG. 3 & 4, on page 3 to finish the assembly of the 11' Spyder Table.



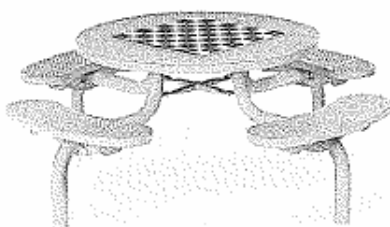
SPECIALTY ITEMS



SP115(D) with SP100 (Sold Separately)



SP226(D) with SP100 (Sold Separately)



SP200(P) with SP100 (Sold Separately)



SP120(D) with SP101 (Sold Separately)



GAME TABLES

Be it checkers, chess or a game of your own, our game-board tabletop will add excitement to picnic or break areas.

- Game board inserts must be ordered separately from table.
- For inserts, choose white or vanilla and any other powder-coating colors on pages 162-163 to alternate with the checkers (e.g., to order the top table on page 110, order SP115(D) - Teal/Teal and a SP100 - Teal)

DIAMOND (D)



PERFORATED (P)



Model	Description	Weight	Price	Weight	Price
TOP INSERTS					
SP100	Game Top Insert - White (Pattern Option - Not Available)	18 lb.	\$109.00		
SP101	Game Top Insert - Vanilla (Pattern Option - Not Available)	18 lb.	109.00		
SPYDER SERIES STYLE					
SP105	46" Round Game Table - Portable/Surface-Mount	225 lb.	\$655.00	247 lb.	\$759.00
SP200	46" Round Game Table - In-Ground	252 lb.	709.00	274 lb.	812.00
SP110	46" Square Game Table - Portable/Surface-Mount	237 lb.	648.00	265 lb.	765.00
SP205	46" Square Game Table - In-Ground	264 lb.	711.00	292 lb.	819.00
SIGNATURE SERIES STYLE					
SP115	46" Round Game Table - Portable	182 lb.	\$555.00	204 lb.	\$629.00
SP210	46" Round Game Table - In-Ground - 4 Seats - Basic Frame	244 lb.	704.00	266 lb.	783.00
SP211	46" Round Game Table - In-Ground - 4 Seats - Superior Frame	252 lb.	743.00	274 lb.	824.00
SP212	46" Round Game Table - In-Ground - 4 Seats - Premium Frame	280 lb.	892.00	302 lb.	993.00
SP215	46" Round Game Table - In-Ground - 3 Seats - Basic Frame	207 lb.	605.00	225 lb.	661.00
SP216	46" Round Game Table - In-Ground - 3 Seats - Superior Frame	215 lb.	651.00	233 lb.	700.00
SP217	46" Round Game Table - In-Ground - 3 Seats - Premium Frame	243 lb.	801.00	313 lb.	862.00
SP220	46" Round Game Table - In-Ground - 2 Seats - Basic Frame	170 lb.	511.00	185 lb.	537.00
SP221	46" Round Game Table - In-Ground - 2 Seats - Superior Frame	178 lb.	550.00	193 lb.	570.00
SP222	46" Round Game Table - In-Ground - 2 Seats - Premium Frame	206 lb.	690.00	221 lb.	733.00
SP120	46" Square Game Table - Portable	194 lb.	530.00	222 lb.	635.00
SP225	46" Square Game Table - In-Ground - 4 Seats - Basic Frame	256 lb.	700.00	284 lb.	809.00
SP226	46" Square Game Table - In-Ground - 4 Seats - Superior Frame	264 lb.	746.00	292 lb.	842.00
SP227	46" Square Game Table - In-Ground - 4 Seats - Premium Frame	292 lb.	892.00	320 lb.	981.00
SP230	46" Square Game Table - In-Ground - 3 Seats - Basic Frame	219 lb.	610.00	243 lb.	699.00
SP231	46" Square Game Table - In-Ground - 3 Seats - Superior Frame	227 lb.	657.00	251 lb.	739.00
SP232	46" Square Game Table - In-Ground - 3 Seats - Premium Frame	255 lb.	796.00	279 lb.	864.00
SP235	46" Square Game Table - In-Ground - 2 Seats - Basic Frame	183 lb.	519.00	202 lb.	584.00
SP236	46" Square Game Table - In-Ground - 2 Seats - Superior Frame	191 lb.	557.00	210 lb.	627.00
SP237	46" Square Game Table - In-Ground - 2 Seats - Premium Frame	219 lb.	700.00	238 lb.	746.00

Surface and in-ground mounts must be adequately anchored. Specifications can be found on pages:
 Spyder® tables - 136 & Signature in-ground - 138-139. See page 24 for photos of Basic, Superior & Premium frames.

TO ORDER ► SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

model no:

SP100N SP101N, SP211D,
SP211P, SP216D, SP216P,
SP221D, SP221P, **SP226D**, SP226P,
SP231D, SP231P, SP236D, SP236P
SPECIALTY SERIES



46" SQ. ~~& RND~~ INGROUND GAME TABLE W/~~8, 8 &~~ 4 SEATS,
SUPERIOR FRAME, EXPANDED METAL ~~& PERFORATED~~

© Wabash Valley Manufacturing, Inc.

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us 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)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

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.

TABLE FRAME:

Main support is constructed from 4" x 4" x 11 gage galvanized structural steel tubing. Square mounting frame, for top, consists of 1/4" x 1 1/4" steel flat bar, 1/4" plate steel and 14 gage sheet steel. Seat assembly arm is constructed with a 2 7/8" od x 9 gage galvanized structural steel tubing. Cross tubing is 2 3/8" od x 12 gage galvanized structural steel tubing. Seat's mounting ears are 10 gage sheet steel. Mounting bracket, to the post, is 3/8" x 3 1/2" x 8" plate steel. Bolt and mounting plate covers are cast aluminum.

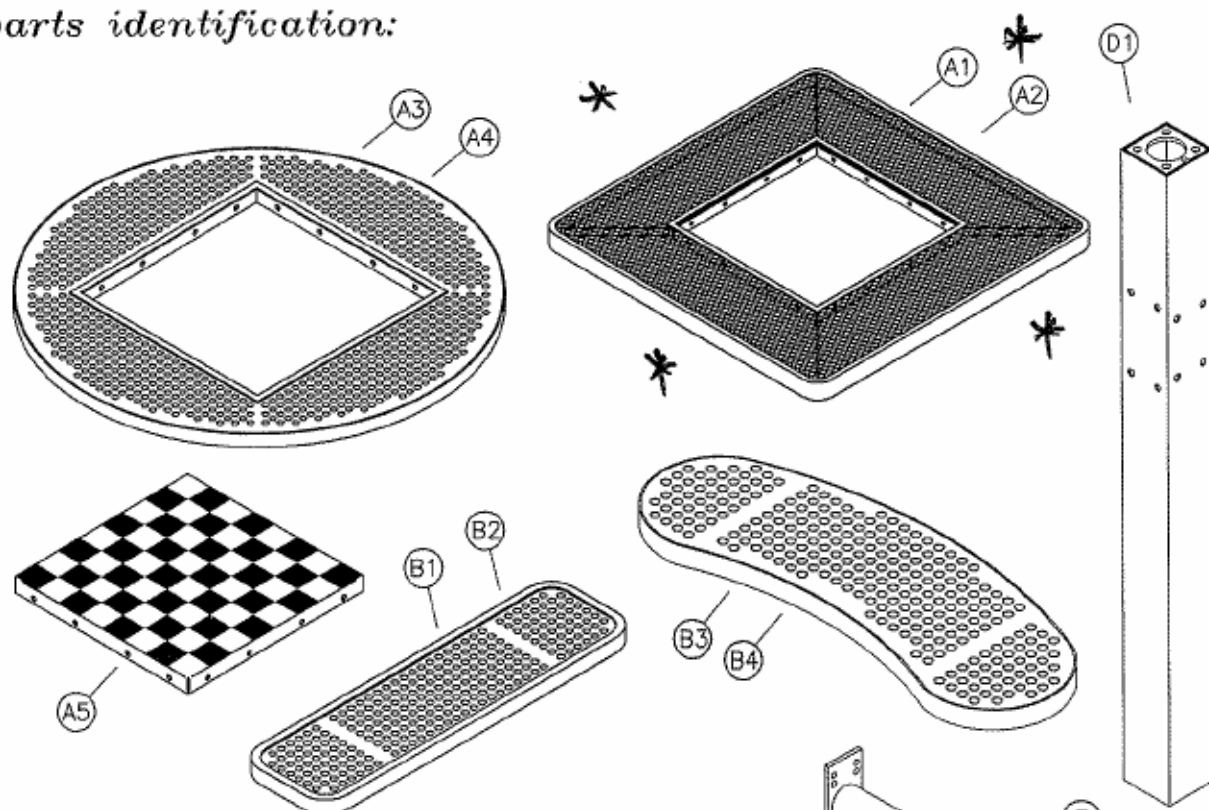
TOP & SEATS:

Tops and seats use fabricated 3/4" #9 expanded steel mesh and 12 gage sheet metal for the perforated. Framing consists of die formed 14 gage mitered angles 3/4" x 1 3/4". Round tops are framed with 1/8" thick x 1 1/2" wide strip steel. Top's square mounting frame and the seat's mounting brackets are 1/4" x 1 1/2" steel flat bar. Top's support braces are 1/8" x 1 1/2" strip steel.

GENERAL:

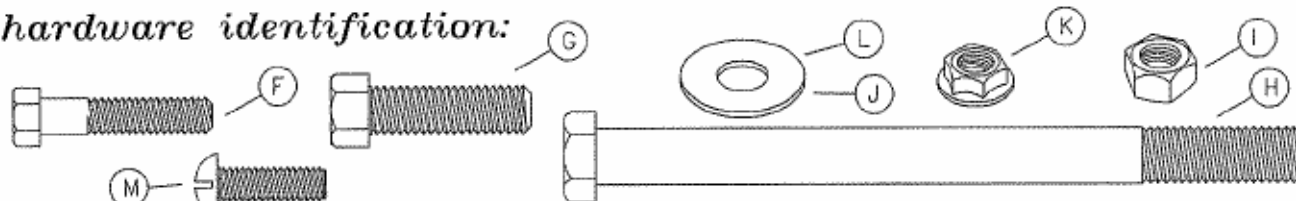
Four seat tables ground space requirements are 77 3/4" squared. Three seat tables ground space requirements are 77 3/4" x 62 1/8". Two seat tables ground space requirements are 77 3/4" x 46 5/8". It is 30" to the top of tables. Seats are 10 3/8" wide x 36 3/8" long and 19 3/8" to the top of seat.

parts identification:



ITEM	PART#	DESCRIPTION	QTY
A1	7835	46" RE EXPANDED METAL TOP	1
A2	7873	46" RE PERFORATED TOP	1
A3	7824	46" ROUND EXPANDED METAL TOP	1
A4	7877	46" ROUND PERFORATED TOP	1
A5	7276	GAME INSERT	1
B1	7530R	3' RE EXPANDED METAL SEAT	2, 3 OR 4
B2	7898	3' RE PERFORATED SEAT	2, 3 OR 4
B3	7666	3' EXPANDED METAL CONCAVE SEAT	2, 3 OR 4
B4	8000	3' PERFORATED CONCAVE SEAT	2, 3 OR 4
C	7464	POST MOUNTING FRAME	1
D1	7306	INGROUND POST	1
D2	7151	MOUNTING PLATE COVER (OPTIONAL)	1
E	7318A	46" SEAT ASSEMBLY	2, 3 OR 4
F1	7152	SEAT ASSEMBLY COVER 2 SEAT TOP	1
F2	7152A	SEAT ASSEMBLY COVER 2 SEAT BOTTOM	1
F3	7153	SEAT ASSEMBLY COVER 3 SEAT TOP	1
F4	7153B	SEAT ASSEMBLY COVER 3 SEAT BOTTOM	1
F5	7154	SEAT ASSEMBLY COVER 4 SEAT	1

hardware identification:



ITEMS INCLUDED IN HARDWARE PACK

#21004 #21012 #21041 #21101

ITEM	PART#	DESCRIPTION	QTY	QTY	QTY	QTY	ASSEMBLY TOOLS REQUIRED
F	17011	5/16-18 x 1 1/2" HEX BOLT - SS	0	8	8	0	1 - FLAT SCREW DRIVER 2 - 1/2" WRENCHES 1 - 9/16" WRENCH 1 - TAPE MEASURE 1 - 3' OR 6' LEVEL 1 - 5/8" WRENCH 1 - 11/16" WRENCH
G	17013	3/8-14 x 1 1/4" HEX BOLT - SS	0	0	4	0	
H	17051	7/16-16 x 5 1/2" HEX BOLT - SS	8	8	8	0	
I	17044	7/16-16 HEX NUT - SS	8	0	4	0	
J	17028	3/8" FLAT WASHER - SS	0	16	20	0	
K	17032	5/16-18 FLANGE NUT - SS	0	8	8	0	
L	17043	7/16" FLAT WASHER - SS	16	0	0	0	
M	17052	1/4-20 x 1" MACHINE SCREW - SS	0	0	0	2	

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.

STEP 1

Slide (C) onto end of (D1), matching the square opening with the square post until it rests on the top of the post. Secure (C) to (D1) engaging four (G) and (J) into pre welded t-nuts inside post, see FIG. 1. Draw the bolts to a snug fit with wrenches.

STEP 2

Invert the top so it's upside down on a flat surface. Lower game insert (A5) into top. Attach the (E1/C) assembly to the inside of the top's center square mounting frame, see FIG. 2. Use eight (G) and (J) using two (F) per (G). Draw the fasteners to a snug fit with wrenches. Screw bolt covers (F1/F2), (F3/F4) or (F5) together using two (M) machine screws and slide over inground post, refer to FIG. 4. Secure to top.

STEP 3

Prepare one foundation hole. Refer to product dimensions on following page.

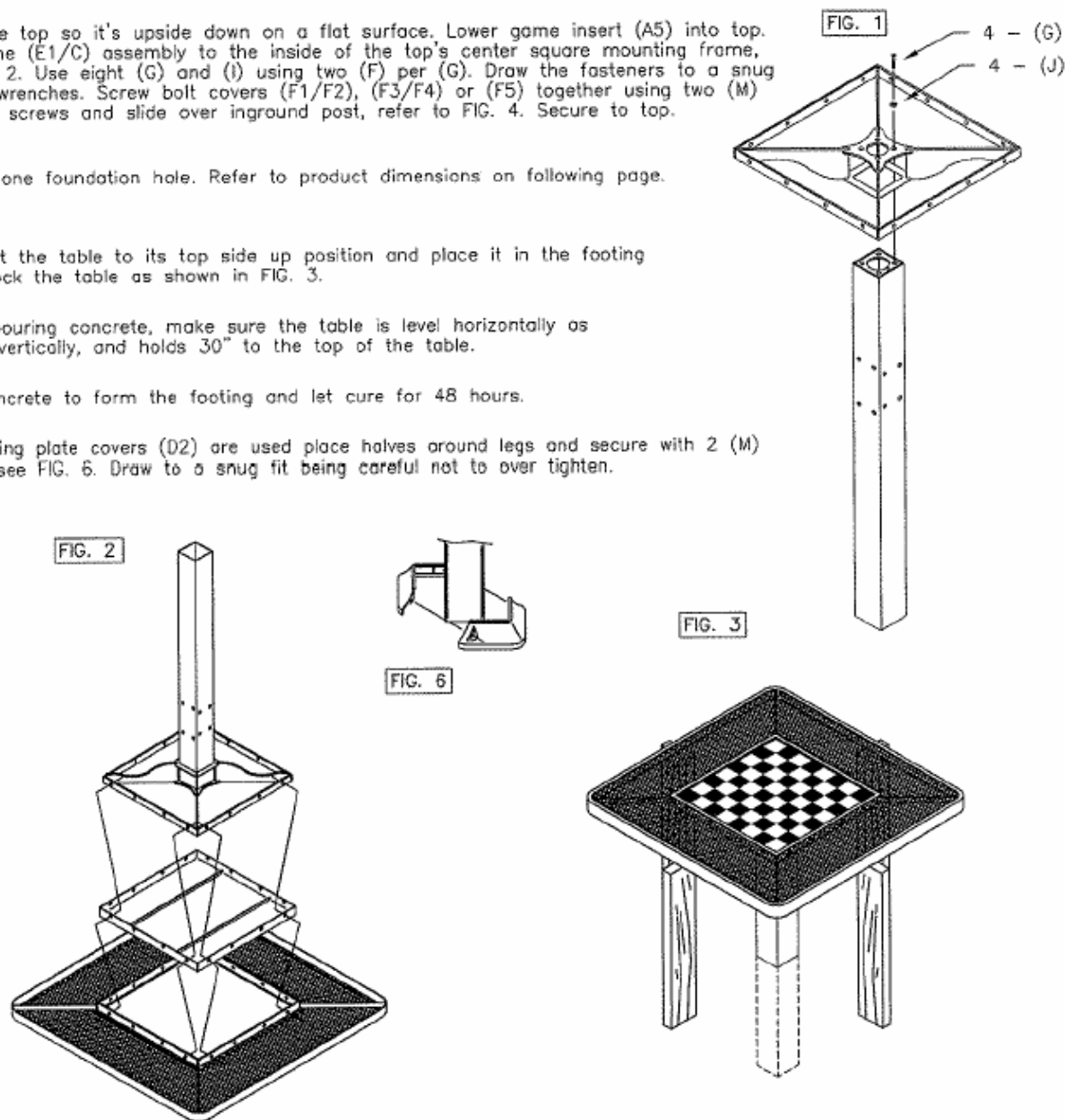
STEP 4

Re-invert the table to its top side up position and place it in the footing hole. Block the table as shown in FIG. 3.

Before pouring concrete, make sure the table is level horizontally as well as vertically, and holds 30" to the top of the table.

Pour concrete to form the footing and let cure for 48 hours.

If mounting plate covers (D2) are used place halves around legs and secure with 2 (M) screws, see FIG. 6. Draw to a snug fit being careful not to over 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'd:

STEP 5

Lower bottom half of bolt cover careful not to scratch the post. Attach each (D) seat assembly arm to the inground post as shown in FIG. 4. Use four, per each seat assembly arm, (H) and (J) using two (L) per (H).

STEP 6

Level the arms, then tighten fasteners with wrenches. Slide covers together and fasten together with two (M) machine screws. Snug covers together being careful not to over tighten.

STEP 7

Attach (2, 3 or 4) seats (B-) to the end of each seat assembly arm, aligning the seat's brackets to the outside of the seat assembly arm's brackets as shown in FIG. 5. Use four, per each seat, (F) and (K) using two (J) per (F).

STEP 8

Level seats and top if necessary and tighten remaining fasteners with wrenches.

FIG. 4

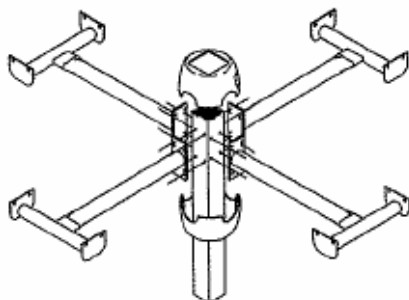
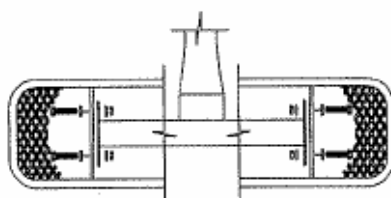
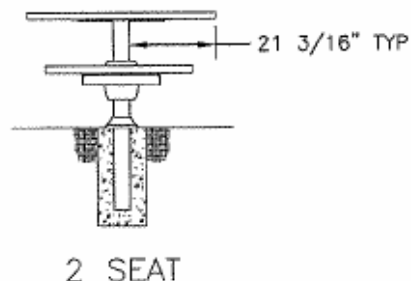
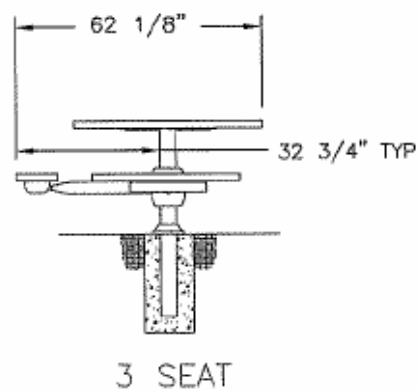
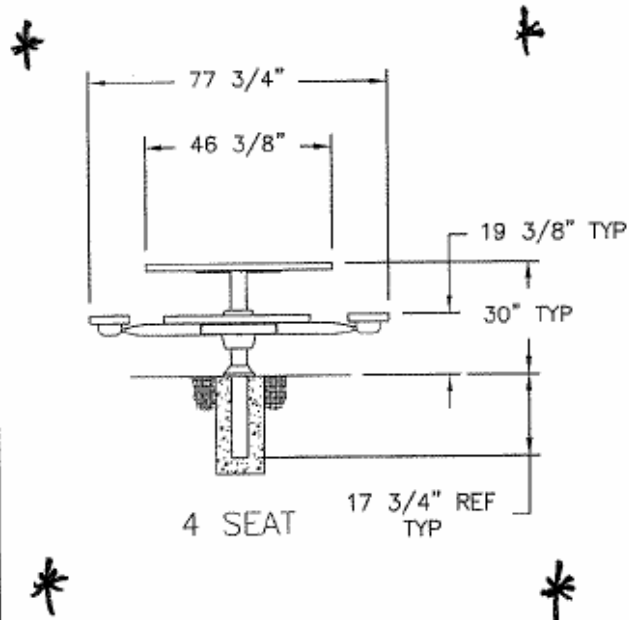


FIG. 5



product dimensions:



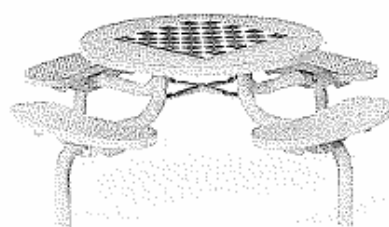
SPECIALTY ITEMS



SP115(D) with SP100 (Sold Separately)



SP226(D) with SP100 (Sold Separately)



SP200(P) with SP100 (Sold Separately)



SP120(D) with SP101 (Sold Separately)



* LIKE THIS WITH
3) SEATS *



GAME TABLES

Be it checkers, chess or a game of your own, our game-board tabletop will add excitement to picnic or break areas.

- Game board inserts must be ordered separately from table
- For inserts, choose white or vanilla and any other powder-coating colors on pages 162-163 to alternate with the checkers (e.g., to order the top table on page 110, order SP115(D) - Teal/Teal and a SP100 - Teal)

		DIAMOND (D)		PERFORATED (P)	
					
Model	Description	Weight	Price	Weight	Price
TOP INSERTS					
SP100	Game Top Insert - White (Pattern Option - Not Available)	18 lb.	\$109.00		
SP101	Game Top Insert - Vanilla (Pattern Option - Not Available)	18 lb.	109.00		
SPYDER SERIES STYLE					
SP105	46" Round Game Table - Portable/Surface-Mount	225 lb.	\$655.00	247 lb.	\$759.00
SP200	46" Round Game Table - In-Ground	252 lb.	709.00	274 lb.	812.00
SP110	46" Square Game Table - Portable/Surface-Mount	237 lb.	648.00	265 lb.	765.00
SP205	46" Square Game Table - In-Ground	264 lb.	711.00	292 lb.	819.00
SIGNATURE SERIES STYLE					
SP115	46" Round Game Table - Portable	182 lb.	\$555.00	204 lb.	\$629.00
SP210	46" Round Game Table - In-Ground - 4 Seats - Basic Frame	244 lb.	704.00	266 lb.	783.00
SP211	46" Round Game Table - In-Ground - 4 Seats - Superior Frame	252 lb.	743.00	274 lb.	824.00
SP212	46" Round Game Table - In-Ground - 4 Seats - Premium Frame	280 lb.	892.00	302 lb.	993.00
SP215	46" Round Game Table - In-Ground - 3 Seats - Basic Frame	207 lb.	605.00	225 lb.	661.00
SP216	46" Round Game Table - In-Ground - 3 Seats - Superior Frame	215 lb.	651.00	233 lb.	700.00
SP217	46" Round Game Table - In-Ground - 3 Seats - Premium Frame	243 lb.	801.00	313 lb.	862.00
SP220	46" Round Game Table - In-Ground - 2 Seats - Basic Frame	170 lb.	511.00	185 lb.	537.00
SP221	46" Round Game Table - In-Ground - 2 Seats - Superior Frame	178 lb.	550.00	193 lb.	570.00
SP222	46" Round Game Table - In-Ground - 2 Seats - Premium Frame	206 lb.	690.00	221 lb.	733.00
SP120	46" Square Game Table - Portable	194 lb.	530.00	222 lb.	635.00
SP225	46" Square Game Table - In-Ground - 4 Seats - Basic Frame	256 lb.	700.00	284 lb.	809.00
SP226	46" Square Game Table - In-Ground - 4 Seats - Superior Frame	264 lb.	746.00	292 lb.	842.00
SP227	46" Square Game Table - In-Ground - 4 Seats - Premium Frame	292 lb.	892.00	320 lb.	981.00
SP230	46" Square Game Table - In-Ground - 3 Seats - Basic Frame	219 lb.	610.00	243 lb.	699.00
SP231	46" Square Game Table - In-Ground - 3 Seats - Superior Frame	227 lb.	657.00	251 lb.	739.00
SP232	46" Square Game Table - In-Ground - 3 Seats - Premium Frame	255 lb.	796.00	279 lb.	864.00
SP235	46" Square Game Table - In-Ground - 2 Seats - Basic Frame	183 lb.	519.00	202 lb.	584.00
SP236	46" Square Game Table - In-Ground - 2 Seats - Superior Frame	191 lb.	557.00	210 lb.	627.00
SP237	46" Square Game Table - In-Ground - 2 Seats - Premium Frame	219 lb.	700.00	238 lb.	746.00

Surface and in-ground mounts must be adequately anchored. Specifications can be found on pages: Spyder® tables - 136 & Signature in-ground - 138-139. See page 24 for photos of Basic, Superior & Premium frames.

TO ORDER → SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

model no:

SP100N SP101N, SP211D,
SP211P, SP216D, SP216P,
SP221D, SP221P, SP226D, SP226P,
SP231D SP231P, SP236D, SP236P
SPECIALTY SERIES

46" SQ. & ~~RND~~ INGROUND GAME TABLE W/~~2~~ 3 & ~~4~~ SEATS,
SUPERIOR FRAME, EXPANDED METAL & ~~PERFORATED~~



© Wabash Valley Manufacturing, Inc.

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us 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)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

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.

TABLE FRAME:

Main support is constructed from 4" x 4" x 11 gage galvanized structural steel tubing. Square mounting frame, for top, consists of 1/4" x 1 1/4" steel flat bar, 1/4" plate steel and 14 gage sheet steel. Seat assembly arm is constructed with a 2 7/8" od x 9 gage galvanized structural steel tubing. Cross tubing is 2 3/8" od x 12 gage galvanized structural steel tubing. Seat's mounting ears are 10 gage sheet steel. Mounting bracket, to the post, is 3/8" x 3 1/2" x 8" plate steel. Bolt and mounting plate covers are cast aluminum.

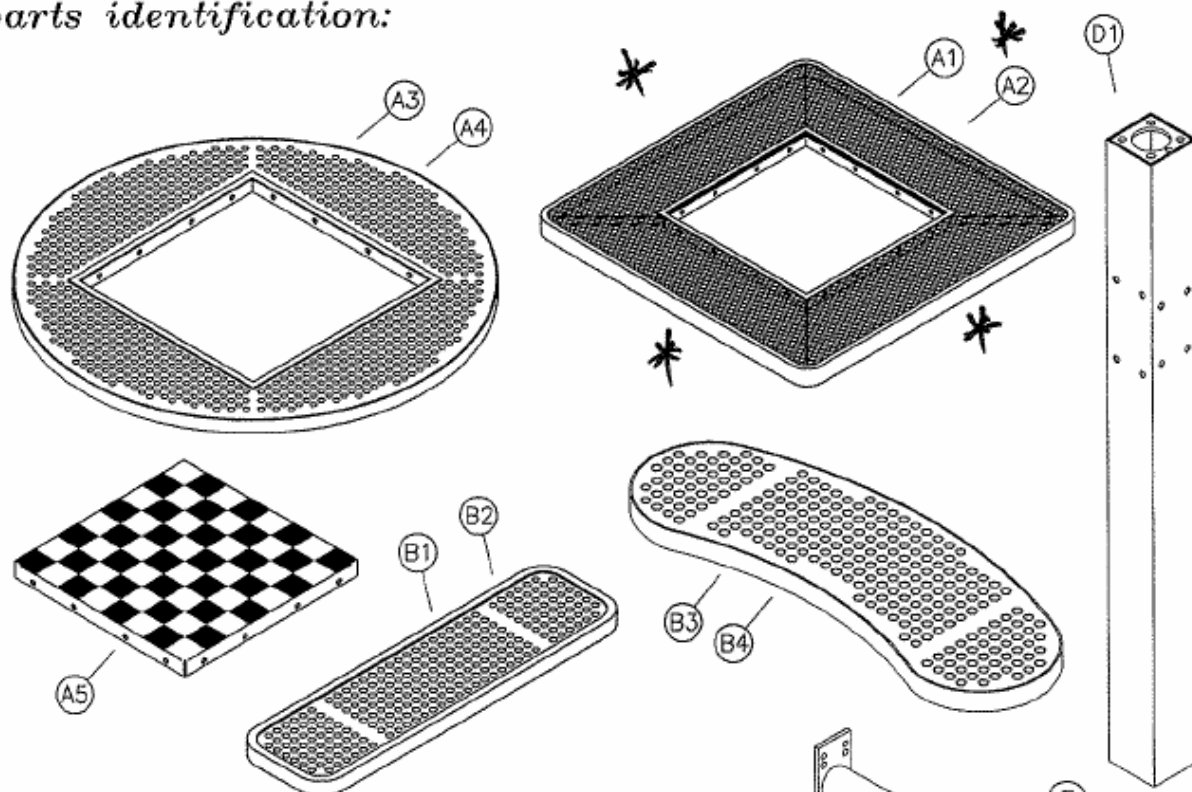
TOP & SEATS:

Tops and seats use fabricated 3/4" #9 expanded steel mesh and 12 gage sheet metal for the perforated. Framing consists of die formed 14 gage mitered angles 3/4" x 1 3/4". Round tops are framed with 1/8" thick x 1 1/2" wide strip steel. Top's square mounting frame and the seat's mounting brackets are 1/4" x 1 1/2" steel flat bar. Top's support braces are 1/8" x 1 1/2" strip steel.

GENERAL:

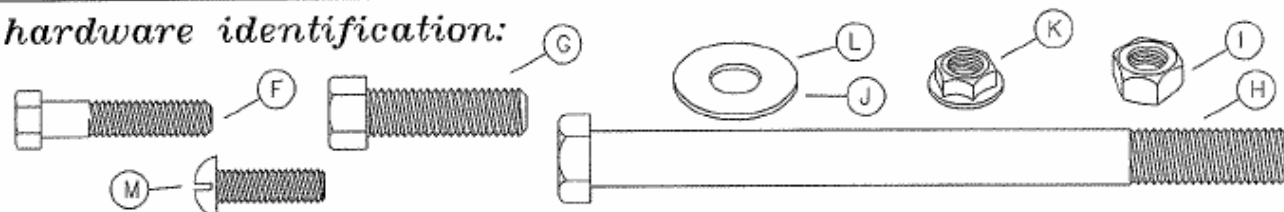
Four seat tables ground space requirements are 77 3/4" squared. Three seat tables ground space requirements are 77 3/4" x 62 1/8". Two seat tables ground space requirements are 77 3/4" x 46 3/8". It is 30" to the top of tables. Seats are 10 3/8" wide x 36 3/8" long and 19 3/8" to the top of seat.

parts identification:



ITEM	PART#	DESCRIPTION	QTY
A1	7835	46" RE EXPANDED METAL TOP	1
A2	7973	46" RE PERFORATED TOP	1
A3	7824	46" ROUND EXPANDED METAL TOP	1
A4	7977	46" ROUND PERFORATED TOP	1
A5	7276	GAME INSERT	1
B1	7530R	3' RE EXPANDED METAL SEAT	2, 3 OR 4
B2	7998	3' RE PERFORATED SEAT	2, 3 OR 4
B3	7666	3' EXPANDED METAL CONCAVE SEAT	2, 3 OR 4
B4	8000	3' PERFORATED CONCAVE SEAT	2, 3 OR 4
C	7464	POST MOUNTING FRAME	1
D1	7306	INGROUND POST	1
D2	7151	MOUNTING PLATE COVER (OPTIONAL)	1
E	7318A	46" SEAT ASSEMBLY	2, 3 OR 4
F1	7152	SEAT ASSEMBLY COVER 2 SEAT TOP	1
F2	7152A	SEAT ASSEMBLY COVER 2 SEAT BOTTOM	1
F3	7153	SEAT ASSEMBLY COVER 3 SEAT TOP	1
F4	7153B	SEAT ASSEMBLY COVER 3 SEAT BOTTOM	1
F5	7154	SEAT ASSEMBLY COVER 4 SEAT	1

hardware identification:



ITEMS INCLUDED IN HARDWARE PACK

#21004 #21012 #21041 #21101

ITEM	PART#	DESCRIPTION	QTY	QTY	QTY	QTY	ASSEMBLY TOOLS REQUIRED
F	17011	5/16-18 x 1 1/2" HEX BOLT - SS	0	8	8	0	1 - FLAT SCREW DRIVER
G	17013	3/8-14 x 1 1/4" HEX BOLT - SS	0	0	4	0	2 - 1/2" WRENCHES
H	17051	7/16-16 x 5 1/2" HEX BOLT - SS	8	8	8	0	1 - 9/16" WRENCH
I	17044	7/16-16 HEX NUT - SS	8	0	4	0	1 - TAPE MEASURE
J	17028	3/8" FLAT WASHER - SS	0	16	20	0	1 - 3' OR 6' LEVEL
K	17032	5/16-18 FLANGE NUT - SS	0	8	8	0	1 - 5/8" WRENCH
L	17043	7/16" FLAT WASHER - SS	16	0	0	0	1 - 11/16" WRENCH
M	17052	1/4-20 x 1" MACHINE SCREW - SS	0	0	0	2	

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 precut 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.

76

STEP 1

Slide (C) onto end of (D1), matching the square opening with the square post until it rests on the top of the post. Secure (C) to (D1) engaging four (G) and (J) into pre welded t-nuts inside post, see FIG. 1. Draw the bolts to a snug fit with wrenches.

STEP 2

Invert the top so it's upside down on a flat surface. Lower game insert (A5) into top. Attach the (E1/C) assembly to the inside of the top's center square mounting frame, see FIG. 2. Use eight (G) and (I) using two (F) per (G). Draw the fasteners to a snug fit with wrenches. Screw bolt covers (F1/F2), (F3/F4) or (F5) together using two (M) machine screws and slide over inground post, refer to FIG. 4. Secure to top.

STEP 3

Prepare one foundation hole. Refer to product dimensions on following page.

STEP 4

Re-invert the table to its top side up position and place it in the footing hole. Block the table as shown in FIG. 3.

Before pouring concrete, make sure the table is level horizontally as well as vertically, and holds 30" to the top of the table.

Pour concrete to form the footing and let cure for 48 hours.

If mounting plate covers (D2) are used place halves around legs and secure with 2 (M) screws, see FIG. 6. Draw to a snug fit being careful not to over tighten.

FIG. 1

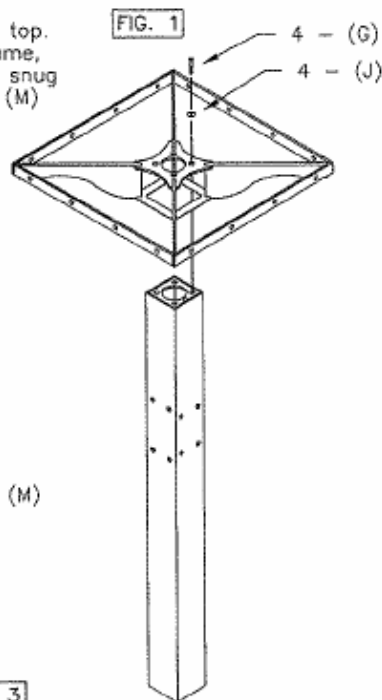


FIG. 2

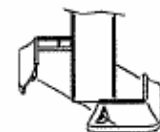
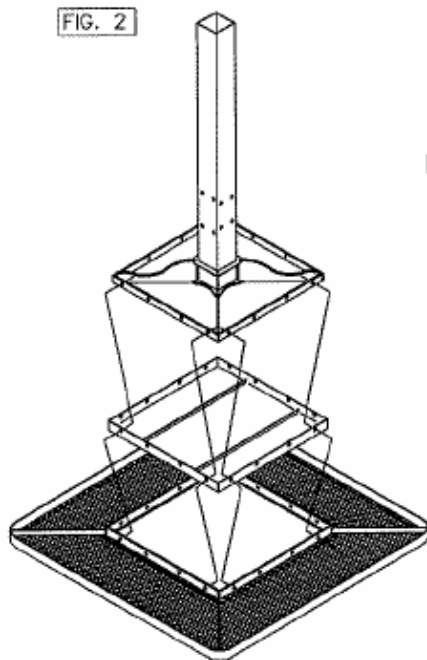
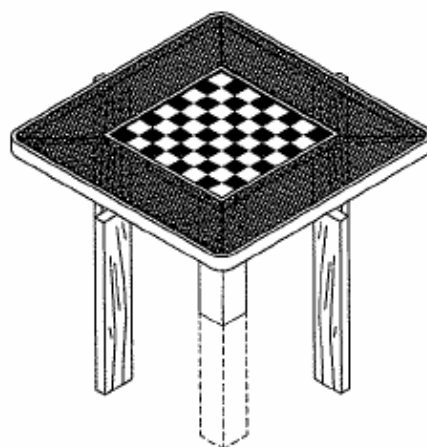


FIG. 6

FIG. 3



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'd:

STEP 5

Lower bottom half of bolt cover careful not to scratch the post. Attach each (D) seat assembly arm to the inground post as shown in FIG. 4. Use four, per each seat assembly arm, (H) and (J) using two (L) per (H).

STEP 6

Level the arms, then tighten fasteners with wrenches. Slide covers together and fasten together with two (M) machine screws. Snug covers together being careful not to over tighten.

STEP 7

Attach (2, 3 or 4) seats (B-) to the end of each seat assembly arm, aligning the seat's brackets to the outside of the seat assembly arm's brackets as shown in FIG. 5. Use four, per each seat, (F) and (K) using two (J) per (F).

STEP 8

Level seats and top if necessary and tighten remaining fasteners with wrenches.

FIG. 4

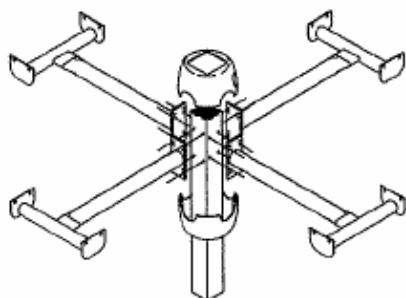
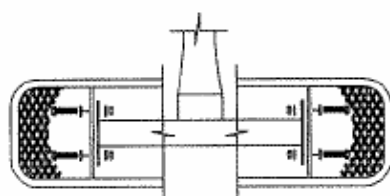
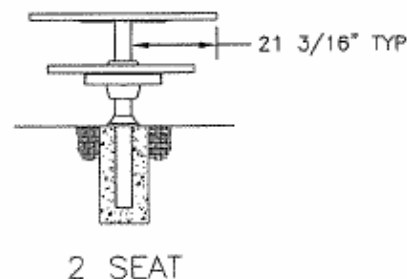
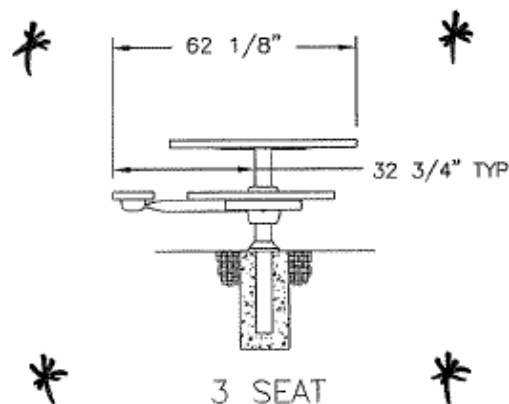
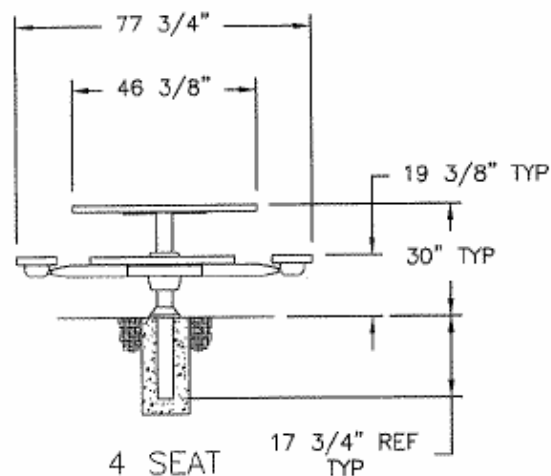
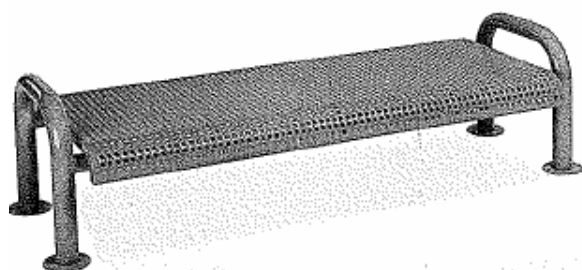


FIG. 5

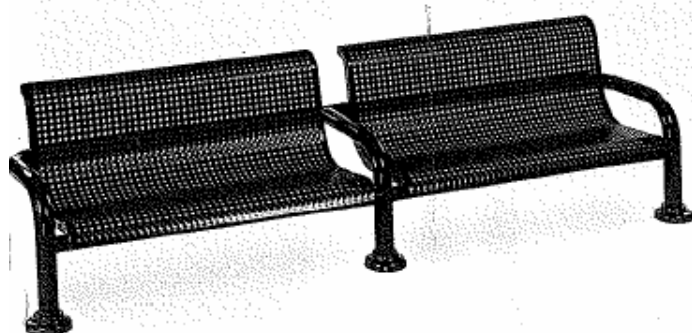


product dimensions:

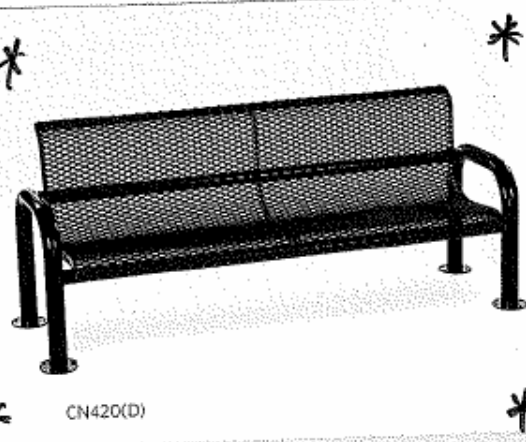




CN425(P)



CN410(P) with CN411(P) - with MC103 (Sold Separately)



CN420(D)

Model	Description	DIAMOND (D)		PERFORATED (P)		WELDED WIRE (W)	
		Weight	Price	Weight	Price	Weight	Price
CN400	4' Bench with back - Port./Surface-Mount	135 lb.	\$427.00	146 lb.	\$468.00	137 lb.	\$444.00
CN401	4' Add-On Bench with back - Port./Surface-Mount	109 lb.	379.00	120 lb.	418.00	111 lb.	397.00
CN405	4' Bench without back - Port./Surface-Mount	128 lb.	385.00	135 lb.	438.00	126 lb.	417.00
CN406	4' Add-On Bench without back - Port./Surface-Mount	106 lb.	336.00	113 lb.	388.00	104 lb.	364.00
CN410	4' Bench with back - In-Ground	130 lb.	419.00	141 lb.	456.00	132 lb.	435.00
CN411	4' Add-On Bench with back - In-Ground	112 lb.	375.00	123 lb.	407.00	114 lb.	385.00
CN415	4' Bench without back - In-Ground	128 lb.	379.00	135 lb.	427.00	126 lb.	407.00
CN416	4' Add-On Bench without back - In-Ground	122 lb.	335.00	129 lb.	379.00	120 lb.	357.00
* CN420	6' Bench with back - Port./Surface-Mount	169 lb.	535.00	192 lb.	595.00	182 lb.	569.00
CN421	6' Add-On Bench with back - Port./Surface-Mount	143 lb.	486.00	166 lb.	547.00	156 lb.	519.00
CN425	6' Bench without back - Port./Surface-Mount	154 lb.	463.00	171 lb.	525.00	156 lb.	492.00
CN426	6' Add-On Bench without back - Port./Surface-Mount	132 lb.	415.00	149 lb.	477.00	134 lb.	441.00
CN430	6' Bench with back - In-Ground	163 lb.	525.00	186 lb.	582.00	176 lb.	555.00
CN431	6' Add-On Bench with back - In-Ground	145 lb.	475.00	168 lb.	533.00	158 lb.	505.00
CN435	6' Bench without back - In-Ground	154 lb.	453.00	171 lb.	511.00	156 lb.	479.00
CN436	6' Add-On Bench without back - In-Ground	148 lb.	394.00	165 lb.	451.00	150 lb.	417.00

model no:

CN400D, CN400O, CN400P, CN400R, CN400S, CN400W,
CN401D, CN401O, CN401P, CN401R, CN401S, CN401W,
CN405D, CN405O, CN405P, CN405R, CN405S, CN405W,
CN406D, CN406O, CN406P, CN406R, CN406W, CN420D,
CN420O, CN420P, CN420R, CN420S, CN420W, CN421D,
CN421O, CN421P, CN421R, CN421S, CN421W, CN425D,
CN425O, CN425P, CN425R, CN425S, CN425W, CN426D,
CN426O, CN426P, CN426R, CN426S, CN426W, SP405P, SP405R



CONTEMPORARY SERIES

~~4' & 6' CONTEMPORARY BENCH & LOW PROFILE~~

~~EXPANDED METAL, WELDED WIRE, RIB, PERFORATED, SLAT & ROD~~

~~PORTABLE & SURFACE MOUNT~~

~~6' MEMORIAL RIB & PERFORATED BENCH~~

© Wabash Valley Manufacturing, Inc.

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 supports are constructed of 2 7/8" od x 12 gage galvanized steel tubing. Attach tubes are constructed of 2 3/8" od x 12 gage tubing. Both types of tubing are made from galvanized structural steel tubing. Mounting brackets on the legs are 10 gage sheet steel and 1/4" x 1 1/2" flat bar steel. The mounting plate covers are made of 2 piece cast aluminum. The surface mount screw-in attachments are made of steel plate 1/4" x 6" with a 5/8" threaded stud.

BENCH SEAT:

Expanded metal seat uses 3/4" #9 expanded steel. Welded wire seat uses fabricated 5 gage welded wire. Rib seats use 10 gage and perforated seats use 12 gage sheet metal. Rod is 1/2" diameter steel and slats are 1/4" x 2 1/4" flat bar. The bench's frame/mounting brackets are made from 10 gage sheet steel. Support braces, adding support to the bench's rolled-sides, are 1/4" x 1 1/4" steel flat bar.

GENERAL:

4' contour bench ground space requirements are 28" x 59". For each add-on, add an additional 53". The bench seat is 48 1/8" long x 25 1/2" wide and 16 1/2" to the top of the lowest part in the bench's seat.

4' low profile bench ground space requirements are 30 3/8" x 59". For each add-on add an additional 53". The bench seat is 48 1/8" long x 30 3/8" wide and 16 1/2" to the top of the seat.

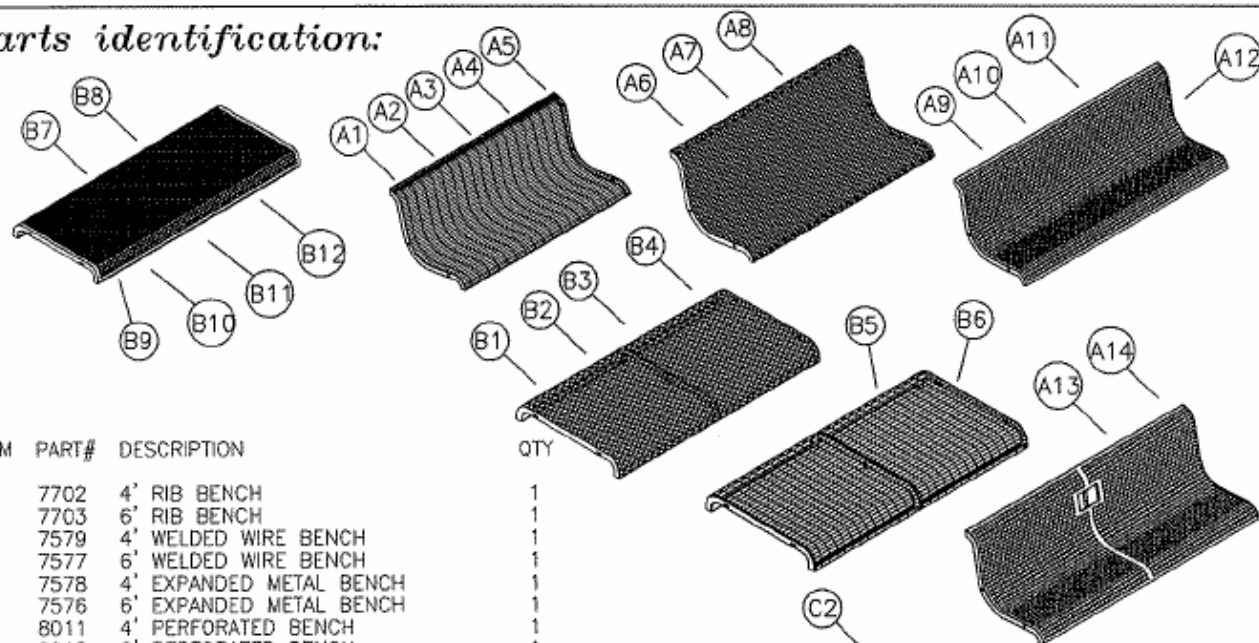
6' contour bench ground space requirements are 28" x 83 1/8". For each add-on, add an additional 77 1/8".

The bench seat is 72 1/8" long x 25 1/2" wide and 16 1/2" to the top of the lowest part in the bench's seat.

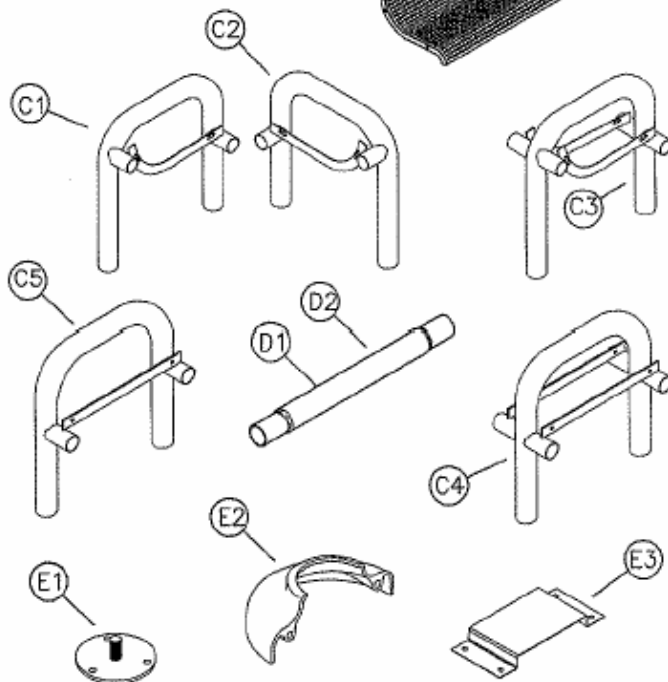
6' low profile bench ground space requirements are 30 3/8" x 83 1/8". For each add-on add an additional 77 1/8". The bench seat is 72 1/8" long x 30 3/8" wide and 16 1/2" to the top of the seat.

The Memorial Plaque consists of #353 Engravers Brass Alloy.

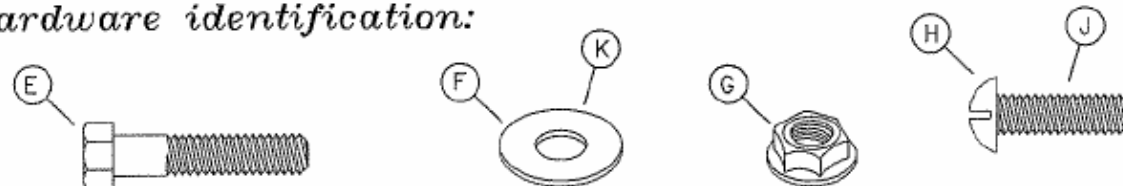
parts identification:



ITEM	PART#	DESCRIPTION	QTY
A1	7702	4' RIB BENCH	1
A2	7703	6' RIB BENCH	1
A3	7579	4' WELDED WIRE BENCH	1
A4	7577	6' WELDED WIRE BENCH	1
A5	7578	4' EXPANDED METAL BENCH	1
A6	7576	6' EXPANDED METAL BENCH	1
A7	8011	4' PERFORATED BENCH	1
A8	8012	6' PERFORATED BENCH	1
A9	8113	4' SLAT BENCH	1
A10	8112	6' SLAT BENCH	1
A11	8115	4' ROD BENCH	1
A12	8114	6' ROD BENCH	1
A13	8049	6' RIB MEMORIAL BENCH	1
A14	8050	6' PERFORATED MEMORIAL BENCH	1
B1	7704	4' RIB LOW PROFILE	1
B2	7705	6' RIB LOW PROFILE	1
B3	7659	4' EXPANDED METAL LOW PROFILE	1
B4	7660	6' EXPANDED METAL LOW PROFILE	1
B5	7661	4' WELDED WIRE LOW PROFILE	1
B6	7662	6' WELDED WIRE LOW PROFILE	1
B7	8013	4' PERFORATED LOW PROFILE	1
B8	8014	6' PERFORATED LOW PROFILE	1
B9	8119	4' SLAT LOW PROFILE	1
B10	8118	6' SLAT LOW PROFILE	1
B11	8121	4' ROD LOW PROFILE	1
B12	8120	6' ROD LOW PROFILE	1
C1	7023	LEFT LEG	1
C2	7022	RIGHT LEG	1
C3	7024	CENTER LEG	1
C4	7049	CENTER LOW PROFILE LEG	1
C5	7048	LOW PROFILE LEG	2
D1	7412	4' ATTACHED TUBE	2
D2	7413	6' ATTACHED TUBE	2
E1	7256	SURFACE MOUNT ATTACHMENT	4
E2	7121	MOUNTING PLATE COVERS (OPTIONAL)	8
E3	7167	MEMORIAL PLAQUE	1



hardware identification:



ITEMS INCLUDED WITH HARDWARE PACKAGE

ITEM	PART#	DESCRIPTION	21014 QTY	21101 QTY	21102 QTY
E	17011	5/16-18 x 1 1/2" HEX HEAD BOLT - SS	4	0	0
F	17028	3/8" FLAT WASHER - SS	8	0	0
G	17032	5/16-18 FLANGE NUT - SS	4	0	0
H	17032	1/4-20 x 1" MACHINE SCREW - SS	0	2	0
J	17022	1/4-20 x 1/2" MACHINE SCREW - SS	0	0	4
K	17103	1/4" FLAT WASHER - SS	0	0	4

ASSEMBLY TOOLS REQUIRED

- 1 - REGULAR TIP SCREWDRIVER
- 2 - 1/2" WRENCHES
- 1 - 3' OR 6' LEVEL

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.

STEP 1

Free stand both right and left legs (C-) and place them approximately the distance of the attached tubes apart, with the round sleeves on each leg facing inward. Take the ends of each attach tube and insert into the round sleeves on each leg, see FIG. 1.

STEP 2

Rotate assembly (C-) upside down, attach the screw in attachments (E1), see FIG. 2. After all parts have been secured, rotate the bench to it's upright position.

STEP 3

Take the (A-/B-) bench seat and raise it above the bench's frame. Bring the bench seat down, aligning the mounting bracket, on each leg to the inside of the bench seat on each end, see FIG. 3.

NOTE: It may be necessary to push/pull each leg inward/outward to bring mounting bracket, on each leg, as close as possible to the inside of the bench seat on each end.

STEP 4

Align the holes on the ends of the bench seat, with the holes on the mounting bracket of each leg. Insert (E) screw and (G) nut, with two (F) for each screw, into all holes.

STEP 5

Adjust the bench seat by pushing the top of the bench downward, in a rocking motion, while raising the front of the bench upward, to its most forward position. Draw the fasteners to a snug fit with wrenches, see FIG. 3.

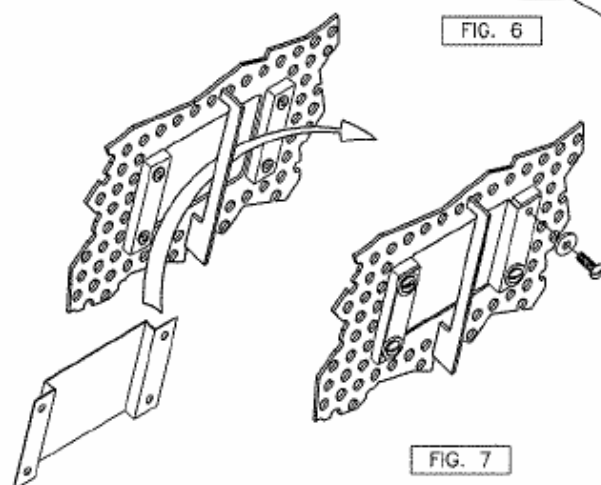
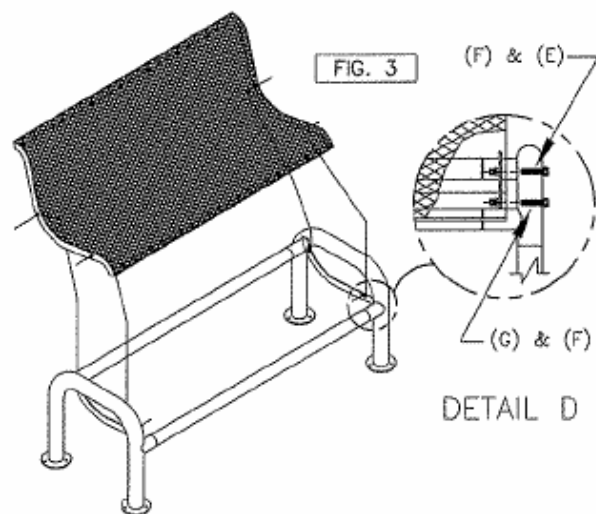
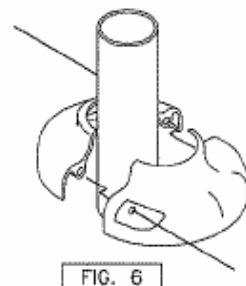
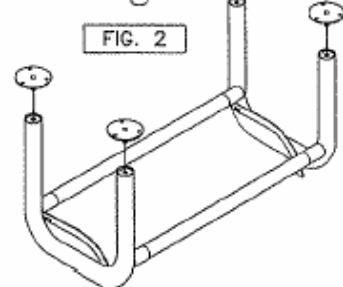
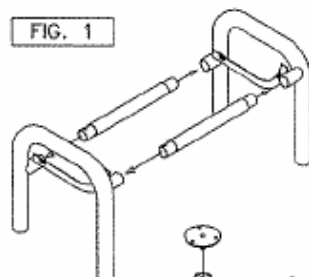
STEP 6

Level bench if necessary and tighten all fasteners with wrenches. If mounting plate covers (E2) are used place them around legs and secure with 2 (H) screws, see FIG. 6. Bring the screws to a snug fit being careful not to over tighten.

NOTE: THESE INSTRUCTIONS ARE FOR BOTH THE LOW PROFILE AND CONTEMPORARY BENCHES.

MEMORIAL BENCH INSTRUCTIONS

After engraving is complete, assemble plaque (E3) to the bench using four (J) and one (F) per each machine screw, see Fig. 7. Thread plaque between center bracket and window of bench panel. Align holes, insert screws and tighten.



installation:

WARNING: The proper installation for Wobash 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'd:

NOTE: The following procedures are written for add-on unit(s), purchased with new single unit(s). There will be some difference if you currently own an existing unit, and have decided to purchase an add-on addition(s).

STEP 1

Allow the end legs to free stand on their own approximately 6 1/2', from the add-on center leg(s), with the round sleeves facing inward. Take the ends of each (D-) attach tube and insert into the round sleeves on each, see FIG. 4.

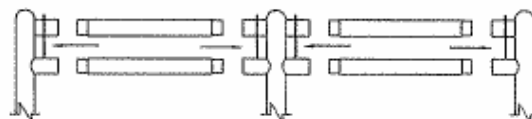


FIG. 4

STEP 2

Take the (A-) or (B-) bench seat and raise it above the bench's frame, see DETAIL D. Bring the bench seat down aligning the mounting brackets, on each leg, to the inside of the bench seat on each end.

NOTE: It may be necessary to push/pull each leg inward/outward to bring the mounting bracket, on each leg, as close as possible to the inside of the bench seat on each end.

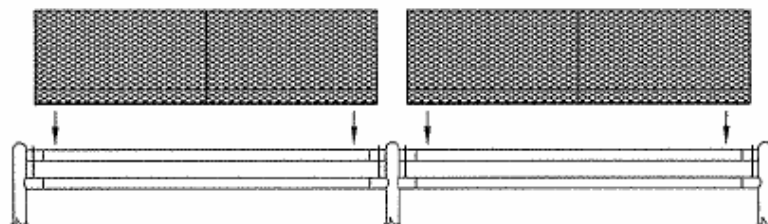
STEP 3

Align the holes on the ends of the bench seat, with the holes on the mounting brackets of each leg. Insert on (E) screw and (G) nut with two (F) washers into all holes, see FIG. 5.

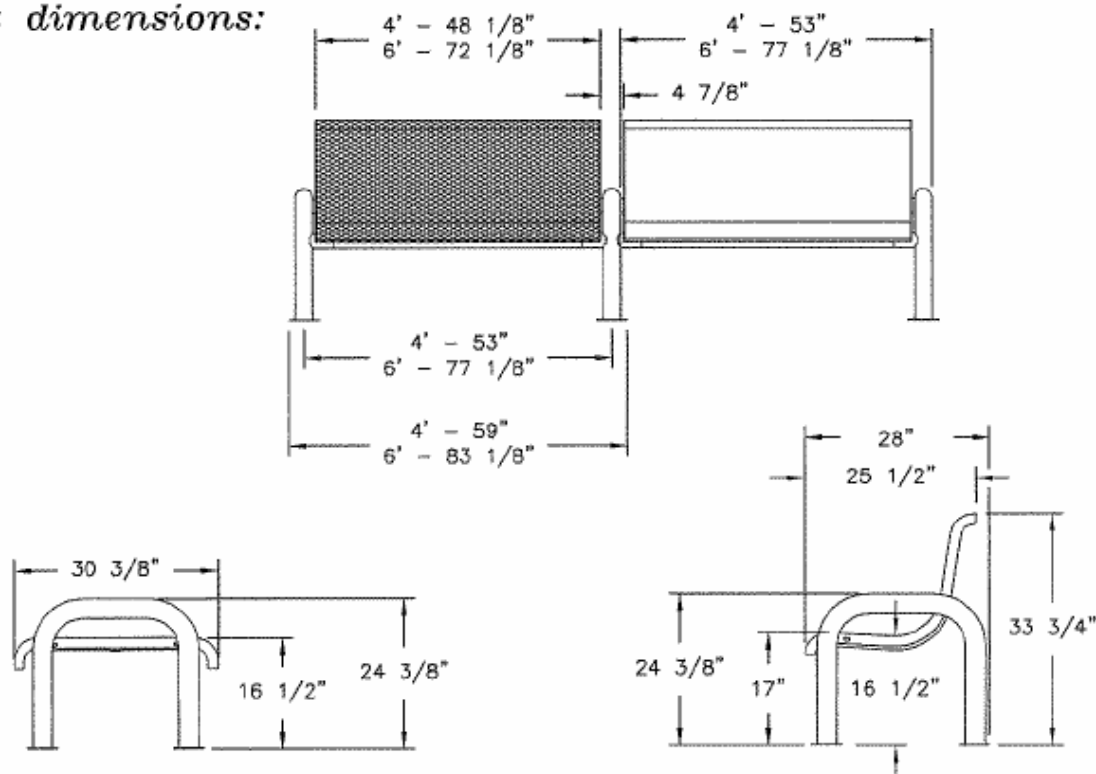
STEP 4

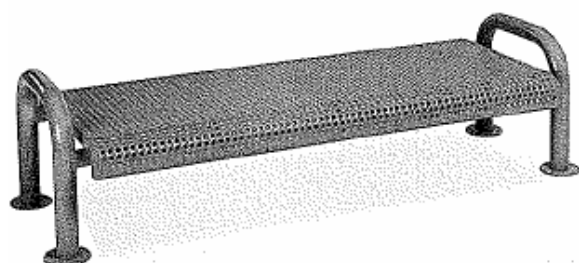
Level the bench if necessary and tighten all fasteners with wrenches.

FIG. 5



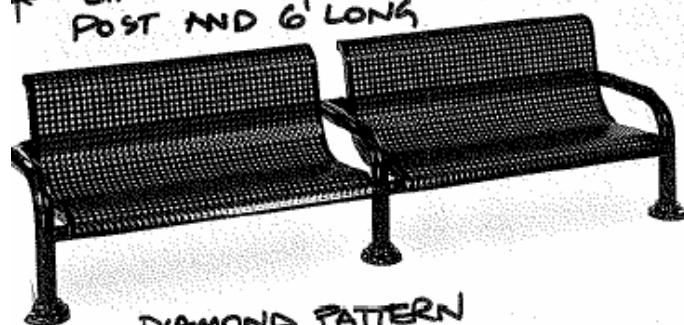
product dimensions:





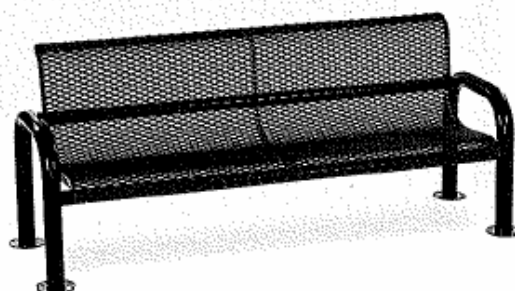
CN425(P)

* LIKE THIS WITHOUT CENTER POST AND 6' LONG *



DIAMOND PATTERN

CN410(P) with CN411(P) - with MC103 (Sold Separately)



CN420(D)

DIAMOND (D)



PERFORATED (P)



WELDED WIRE (W)



Model	Description	Weight	Price	Weight	Price	Weight	Price
CN400	4' Bench with back - Port./Surface-Mount	135 lb.	\$427.00	146 lb.	\$468.00	137 lb.	\$444.00
CN401	4' Add-On Bench with back - Port./Surface-Mount	109 lb.	379.00	120 lb.	418.00	111 lb.	397.00
CN405	4' Bench without back - Port./Surface-Mount	128 lb.	385.00	135 lb.	438.00	126 lb.	417.00
CN406	4' Add-On Bench without back - Port./Surface-Mount	106 lb.	336.00	113 lb.	388.00	104 lb.	364.00
CN410	4' Bench with back - In-Ground	130 lb.	419.00	141 lb.	456.00	132 lb.	435.00
CN411	4' Add-On Bench with back - In-Ground	112 lb.	375.00	123 lb.	407.00	114 lb.	385.00
CN415	4' Bench without back - In-Ground	128 lb.	379.00	135 lb.	427.00	126 lb.	407.00
CN416	4' Add-On Bench without back - In-Ground	122 lb.	335.00	129 lb.	379.00	120 lb.	357.00
CN420	6' Bench with back - Port./Surface-Mount	169 lb.	535.00	192 lb.	595.00	182 lb.	569.00
CN421	6' Add-On Bench with back - Port./Surface-Mount	143 lb.	486.00	166 lb.	547.00	156 lb.	519.00
CN425	6' Bench without back - Port./Surface-Mount	154 lb.	463.00	171 lb.	525.00	156 lb.	492.00
CN426	6' Add-On Bench without back - Port./Surface-Mount	132 lb.	415.00	149 lb.	477.00	134 lb.	441.00
CN430	6' Bench with back - In-Ground	163 lb.	525.00	186 lb.	582.00	176 lb.	555.00
CN431	6' Add-On Bench with back - In-Ground	145 lb.	475.00	168 lb.	533.00	158 lb.	505.00
CN435	6' Bench without back - In-Ground	154 lb.	453.00	171 lb.	511.00	156 lb.	479.00
CN436	6' Add-On Bench without back - In-Ground	148 lb.	394.00	165 lb.	451.00	150 lb.	417.00

TO ORDER: SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

model no:

CN410D, CN4100, CN410P, CN410R, CN410S, CN410W,
CN411D, CN4110, CN411P, CN411R, CN411S, CN411W,
CN415D, CN4150, CN415P, CN415R, CN415S, CN415W,
CN416D, CN4160, CN416P, CN416R, CN416S, CN416W,
CN430D, CN4300, CN430P, CN430R, CN430S, CN431D,
CN4310, CN431P, CN431R, CN431S, CN431W, CN435D,
CN430W, CN4350, CN435P, CN435R, CN435S, CN435W, CN436D,
CN4360, CN436P, CN436R, CN436S, CN436W, SP406P, SP406R



CONTEMPORARY SERIES

~~4' & 6' CONTEMPORARY BENCH & LOW PROFILE~~

~~EXPANDED METAL, WELDED WIRE, RIB, PERFORATED, SLAT & ROD~~
~~INGROUND~~

~~6' MEMORIAL RIB & PERFORATED BENCH~~

© Wabash Valley Manufacturing, Inc.

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 supports are constructed of 2 7/8" od x 12 gage galvanized structural steel tubing. Attach tubes are constructed of 2 3/8" od x 12 gage and 2 7/8" od x 12 gage galvanized structural steel tubing. Mounting brackets on legs are 10 gage sheet steel and 1/4" x 1 1/2" steel flat bar. The surface mounting screw-in attachment is made of steel plate 1/4" x 6" with a 5/8" threaded stud. The mounting plate covers are 2 piece cast aluminum.

BENCH SEAT:

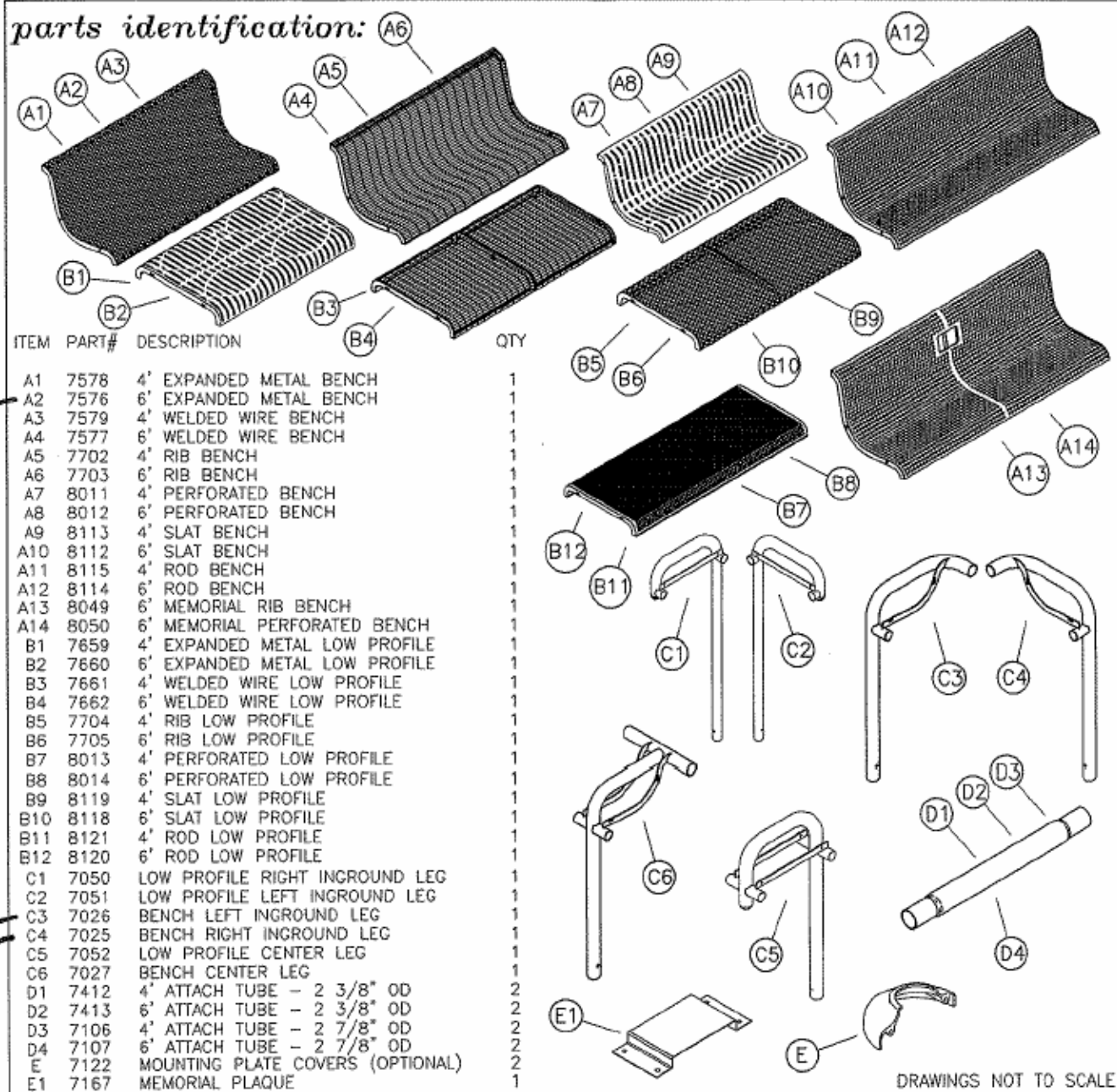
Expanded metal seat uses 3/4" #9 expanded steel. Welded wire seat uses fabricated 5 gage welded wire. Rib pattern benches use 10 gage sheet steel. Perforated pattern benches use 12 gage sheet steel. Rod is 1/2" diameter steel and slats are 1/4" x 2 1/4" flat bar. The bench's frame/mounting brackets are made from 10 gage sheet steel. Support braces, adding support to the bench's rolled-sides, are 1/4" x 1 1/4" steel flat bar.

GENERAL:

4' contour bench ground space requirements are 27" x 55 7/8" for a single unit. For each add-on, it is an additional 53". The bench seat is 48 1/8" long x 25 1/2" wide and 16 1/2" to the top of the lowest part.
4' low profile bench ground space requirements are 30 3/8" x 55 7/8" for a single unit. For each add-on, add an additional 53". The bench seat is 48 1/8" long x 30 3/8" wide and 16" to the top of the seat.
6' contour bench ground space requirements are 27" x 80" for a single unit. For each add-on, add an additional 77 1/8". The bench seat is 72 1/8" long x 25 1/2" wide and 16 1/2" to the top of the lowest part.
6' low profile bench ground space requirements are 30 3/8" x 80" for a single unit. For each add-on, add an additional 77 1/8". The bench seat is 72 1/8" long x 30 3/8" wide and 16" to the top of the seat.

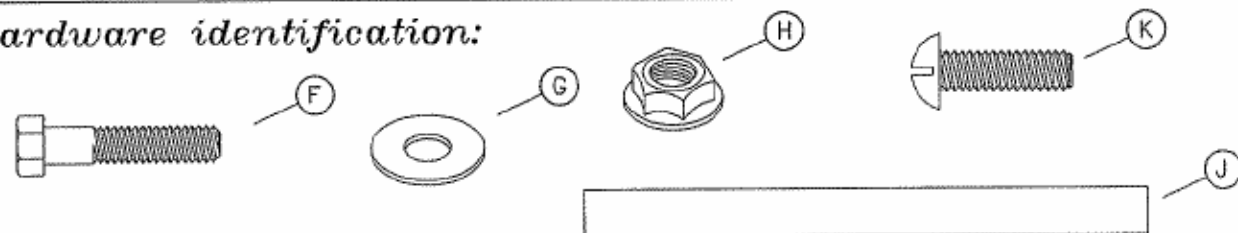
The Memorial Plaque consists of #353 Engravers Brass Alloy.

parts identification:



DRAWINGS NOT TO SCALE

hardware identification:



ITEMS INCLUDED IN HARDWARE PACKAGE

ITEM	PART#	DESCRIPTION	21069 QTY	21079 QTY	21101 QTY	21102 QTY
F	17011	5/16-18 X 1 1/2" HEX HEAD BOLT - SS	4	4	0	0
G	17028	3/8" FLAT WASHER - SS	8	8	0	0
H	17032	5/16-18 FLANGE NUT - SS	4	4	0	0
J	CP5355	3/8" DIA x 4 1/2" ROD - SS	2	1	0	0
K	17052	1/4-20 x 1" MACHINE SCREW - SS	0	0	2	0
L	17022	1/4-20 x 1/2" MACHINE SCREW - SS	0	0	0	4
M	17103	1/4" FLAT WASHER - SS	0	0	0	4

ASSEMBLY TOOLS REQUIRED

- 1 - 1/2" WRENCHES
- 1 - REGULAR TIP SCREWDRIVER
- 1 - 3' OR 6' LEVEL

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.

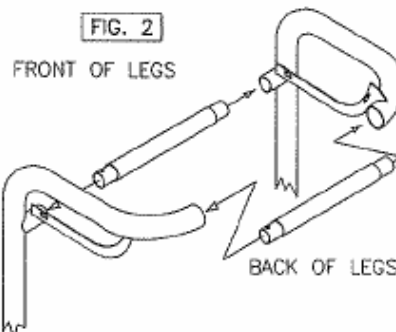
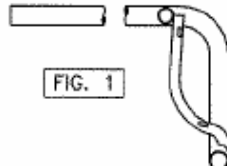
STEP 1

Lay both (C-) right and left legs, approximately the distance of the attached tubes apart, so that the inground leg is on the floor with the round sleeves on each leg facing inward, see FIG. 1. Take the ends of each attach tube and insert into the round sleeves to the front of each leg, see FIG. 2. Take (D4), (D1), (D2) or (D3), (D5) or (D6) attach tube and insert into the round sleeves to the back of each leg. See FIG. 2.

STEP 2

Take the (A-) or (B-) bench seat and raise it above the bench's frame. Bring the the bench seat down, aligning the mounting bracket, on each leg, to the inside of the bench seat on each end, see FIG. 3 and 4.

NOTE: It may be necessary to push each leg inward to bring mounting bracket, on each leg, as close as possible to the inside of the bench seat on each end.



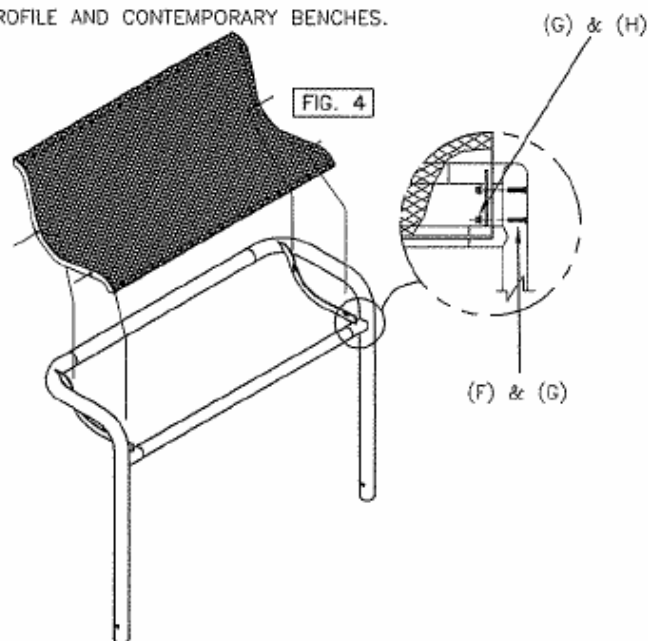
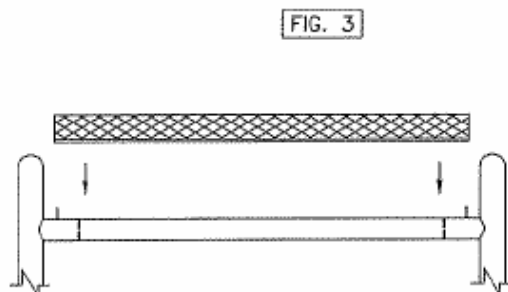
STEP 3

Align the holes on the ends of the bench seat, with the holes on the mounting bracket of each leg. Insert a (F) bolt and (H) nut, with two (G) for each bolt, into all holes.

STEP 4

Adjust the bench seat by pushing the top of the bench downward in a rocking motion, while raising the front of the bench upward, to its most forward position. Draw the fasteners to a snug fit with wrenches.

NOTE: THESE INSTRUCTIONS ARE FOR BOTH THE LOW PROFILE AND CONTEMPORARY BENCHES.



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'd:

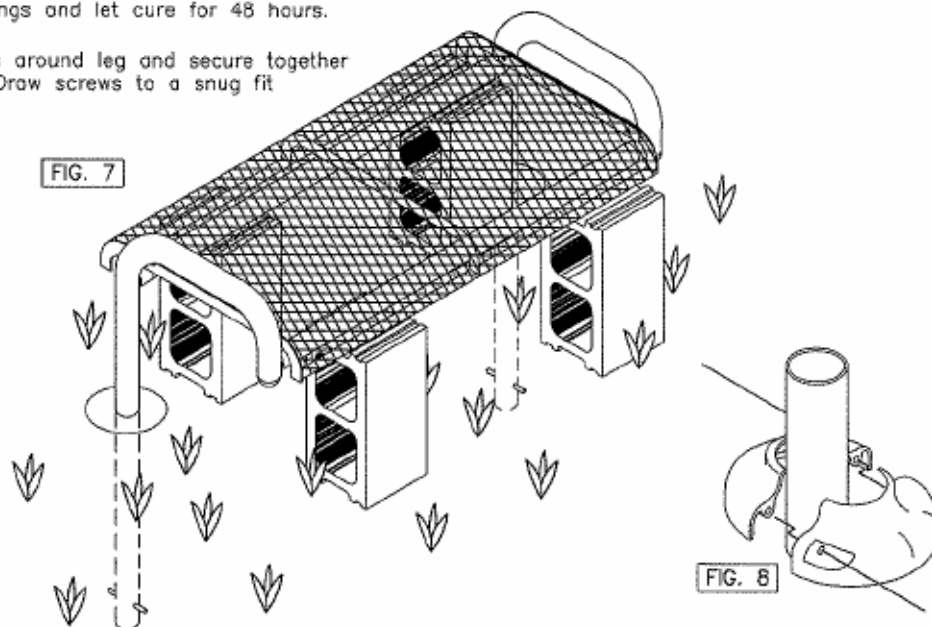
STEP 5

Prepare the foundation holes as shown in the dimensions portion of this assembly instruction sheet. The distance of holes, center to center, is shown at the bottom of this page. Place the bench in the footing holes and block bench as shown in FIG. 7.

Before pouring concrete, make sure the bench is level horizontally as well as vertically and hold 16" to the top of the bench seat.

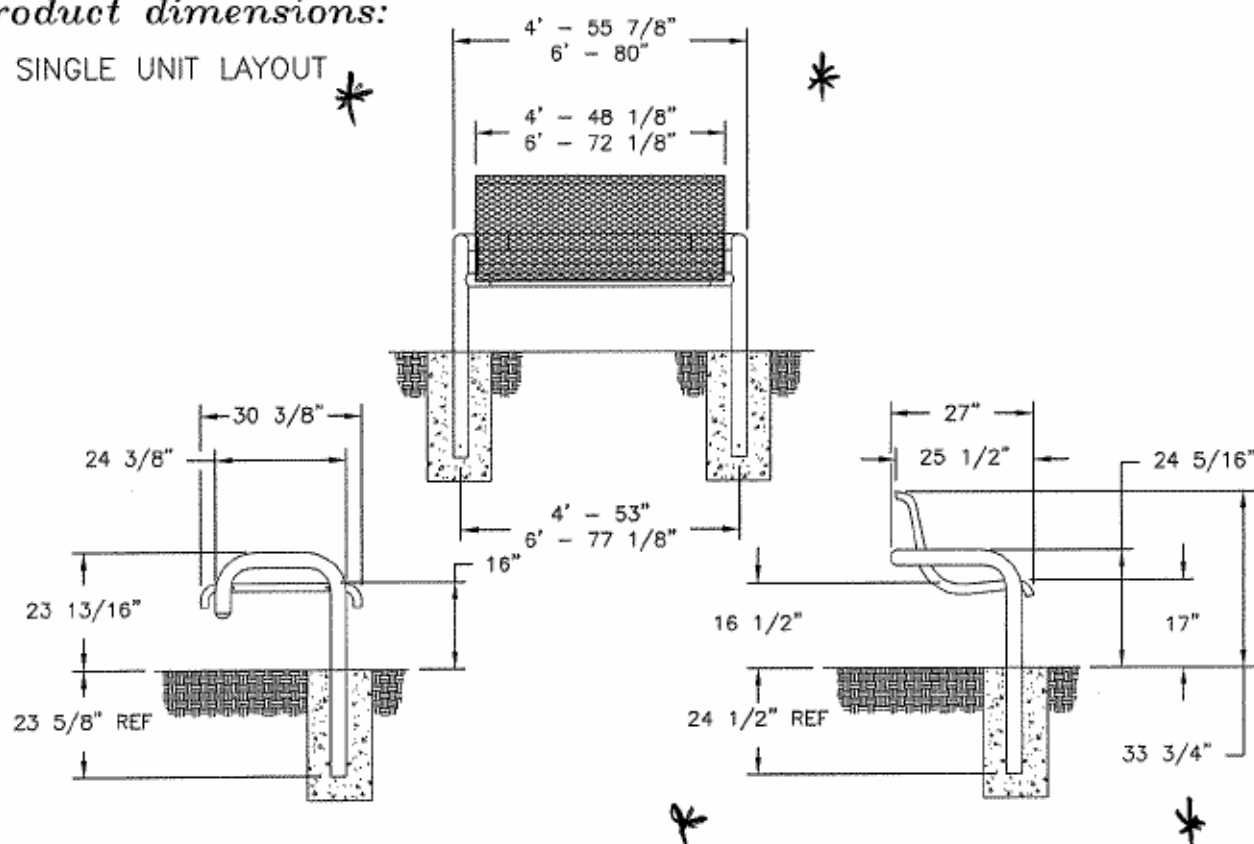
Pour concrete to form the footings and let cure for 48 hours.

If using covers (E), place halves around leg and secure together with 2 (K) screws, see FIG. 8. Draw screws to a snug fit taking care not to over tighten.



product dimensions:

SINGLE UNIT LAYOUT



assembly procedures, cont'd:

NOTE: The following procedures are written for add-on unit(s), purchased along with new single unit(s). There will be some difference if you currently own an existing unit, and have decided to purchase an add-on addition(s).

NOTE: THESE INSTRUCTIONS ARE FOR BOTH THE LOW PROFILE AND CONTEMPORARY BENCHES.

STEP 1

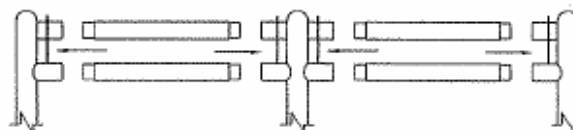
Lay both (C-) right and left legs, approximately the distance of the attached tubes apart, from the (C-) center leg so that the inground leg is on the floor with the round sleeves in each leg facing inward, see FIG. 1. Take the ends of each attached tube and insert into the round sleeves on each leg, see FIG. 5.

STEP 2

Take the (A-) or (B-) bench seat and raise it above the bench's frame. Bring the bench seat down, aligning the mounting bracket, on each leg, to the inside of the bench seat on each end, (SEE FIG.6).

NOTE: It may be necessary to push each leg inward to bring the mounting bracket, on each leg, as close as possible to the inside of the bench seat on each end.

FIG. 5



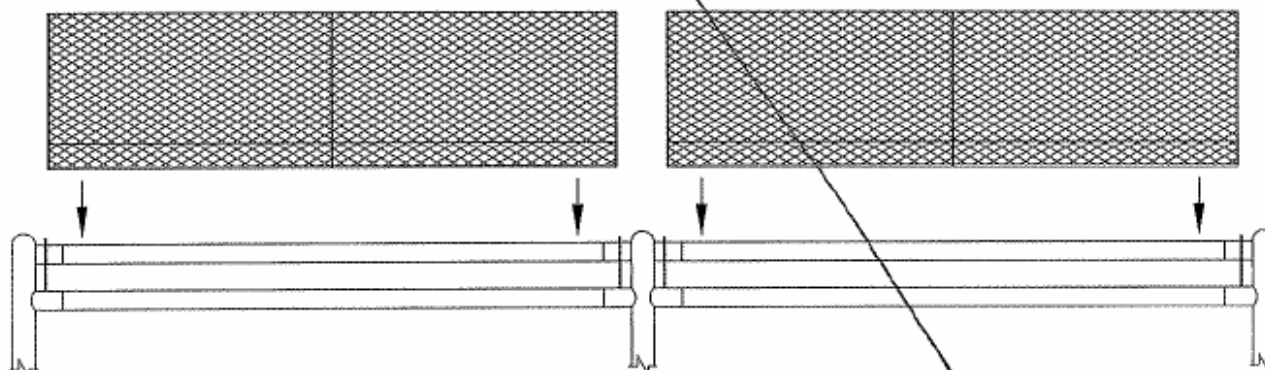
STEP 3

Align the holes in the ends of the bench seat, with the holes in the mounting brackets of each leg. Insert a (F) & (H) with two (G) for each (F), into all holes, see FIG.6.

STEP 4

Adjust the bench seat by pushing the top of the bench downward, in a rocking motion, while raising the front of the bench upward, to its most forward position. Draw the fasteners to a snug fit with wrenches.

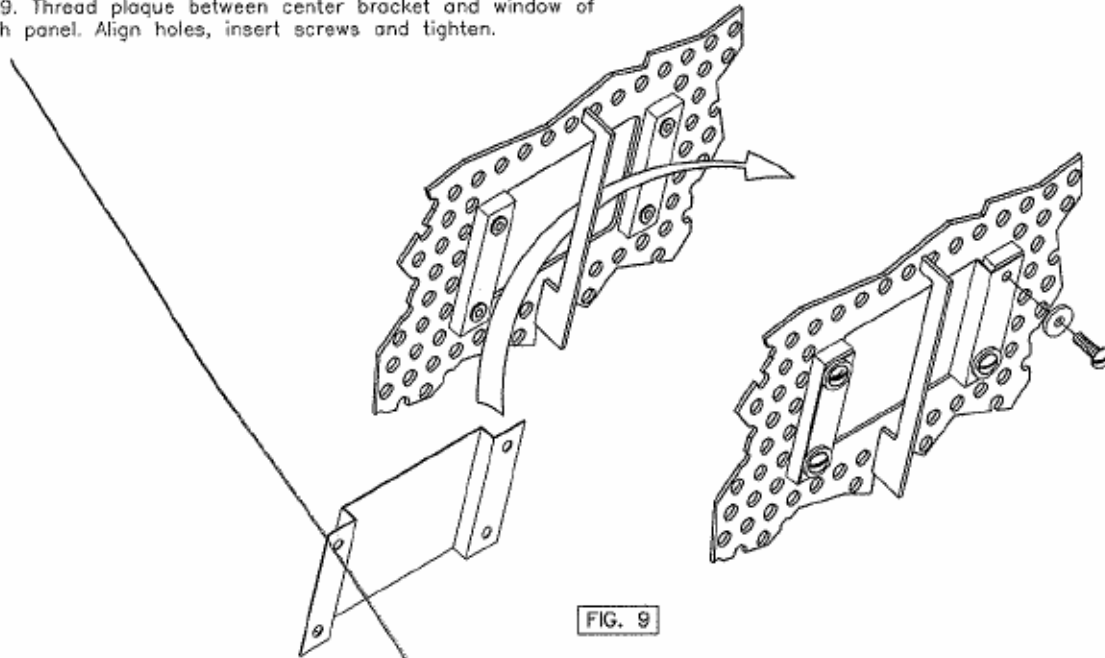
FIG. 6



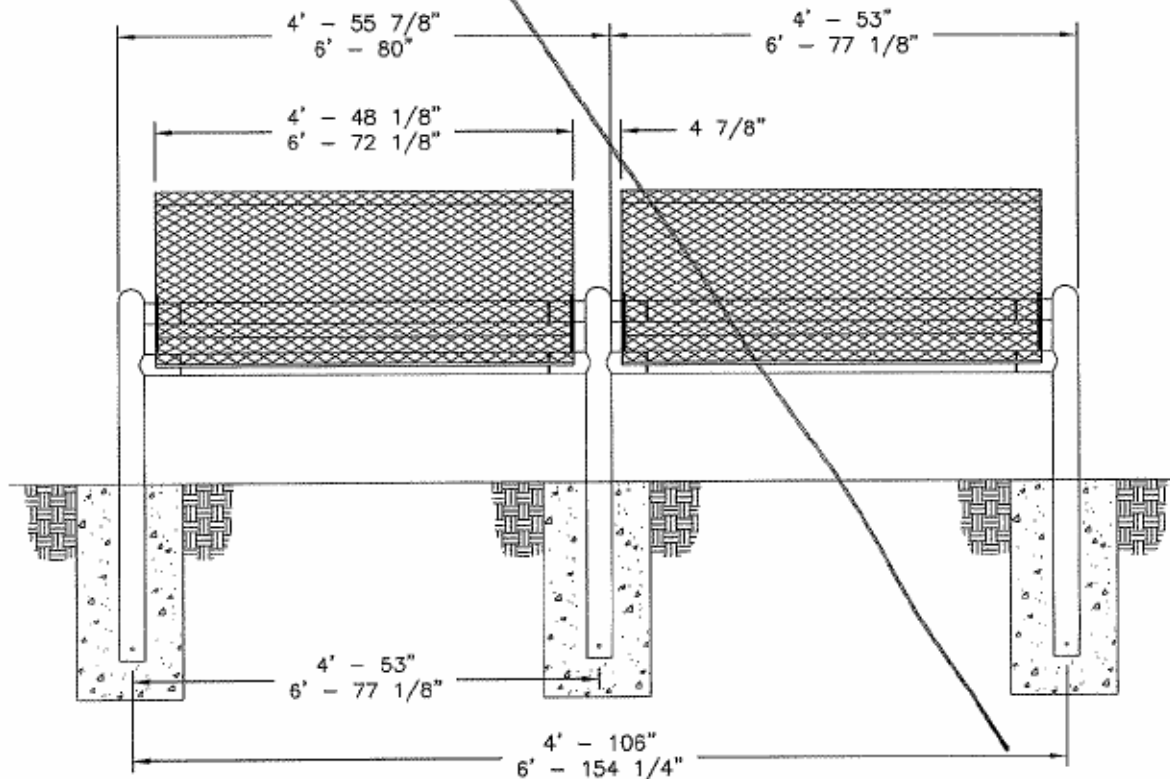
assembly procedures, cont'd:

MEMORIAL BENCH INSTRUCTIONS

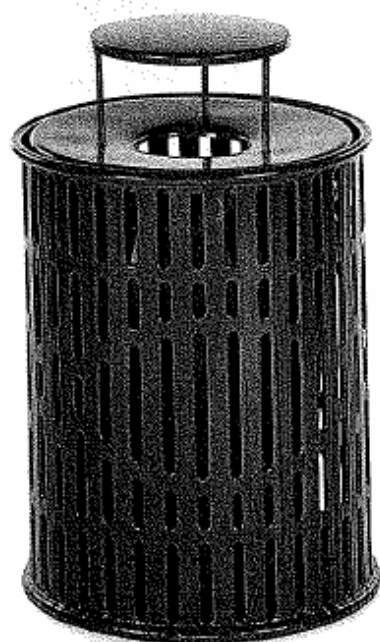
After engraving is complete, assemble plaque (E1) to the (A13-A14) bench using four (L) machine screws and one (M) per each machine screw, see Fig. 9. Thread plaque between center bracket and window of bench panel. Align holes, insert screws and tighten.



product dimensions: ADD-ON LAYOUT



ACCESSORIES

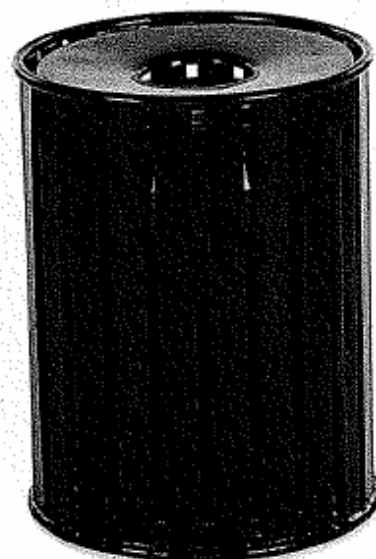


LR300(R) with SB100

* LIKE THIS IN
DIAMOND PATTERN *



LR300(P) with FT100



LR300(S) with FT100

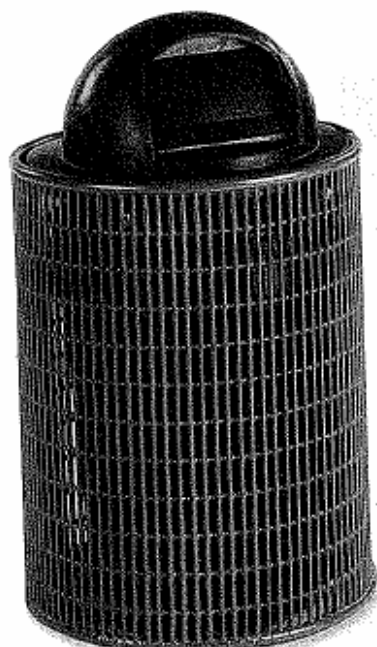
STANDARD RECEPTACLES

We designed our standard receptacles to complement our other site amenities.

- Freestanding 22- and 32-gallon sizes
- Diamond, perforated, welded wire, rib, rod and slat patterns; all completely Plastisol-coated
- Optional liners, lids and mounting posts available separately for use on any size
- See pages 126-127 for lid options



LR300(O) with AB100



LR300(W) with DT100



LR200(D) with AL100

Model	Description	DIAMOND (D)		PERFORATED (P)		WELDED WIRE (W)	
		Weight	Price	Weight	Price	Weight	Price
LR200	22-Gallon Receptacle	57 lb.	\$155.00	76 lb.	\$208.00	60 lb.	\$169.00
LR300	32-Gallon Receptacle	67 lb.	173.00	85 lb.	240.00	78 lb.	193.00

Model	Description	RIB (R)		ROD (O)		SLAT (S)	
		Weight	Price	Weight	Price	Weight	Price
LR200	22-Gallon Receptacle	88 lb.	\$208.00	160 lb.	\$296.00	161 lb.	\$285.00
LR300	32-Gallon Receptacle	106 lb.	239.00	174 lb.	315.00	175 lb.	305.00
Model	Accessories for items above (Pattern Options - Not Available)					Weight	Price
LR210	22-Gallon Receptacle Liner					4 lb.	\$16.00
LR310	32-Gallon Receptacle Liner					5 lb.	19.00
LR100	In-Ground Post Package					12 lb.	36.00
LR105	Surface-Mount Post Package					12 lb.	36.00

Surface and in-ground mounts must be adequately anchored. Specifications can be found on page 154.

TO ORDER: SELECT MODEL NUMBER, PATTERN OPTION AND COLOR CHOICE.

QUICK SHIP
MOBILE HIGHLIGHTED IN BLUE
SEE PAGE 7 FOR DETAILS

model no:

FR400D, FR4000, FR400P, FR400R, FR400W,
LR200D, LR2000, LR200P, LR200R, LR200S,
LR200W, LR300D, LR3000, LR300P, LR300R,
LR300S, LR300W, LR350D, LR355D, LR355P,
RV5000

TRASH RECEPTACLES/ACCESSORIES

~~32 GAL. TAPERED, 32, 32 & 55 GAL. RECEPTACLES,~~
~~32 GAL. FLARE RECEPTACLES & RELIEF RECEPTACLE~~



© Wabash Valley Manufacturing, Inc.

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us 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)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

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.

TRASH RECEPTACLES:

Expanded metal receptacles use 3/4" #9 expanded steel mesh with 5/16" diameter steel rod, joining the ends of the fabricated metals, to form the seam of their diameter. Welded wire receptacles use 5 gage welded wire. Rib panel is 10 gage and perforated panel is 12 gage sheet metal. A 3/4" diameter steel tube is used to add support at the top and bottom. Tubing on top of flare tops are replaced with the aluminum cast flare. The bottom is also supported by a 14 gage sheet steel formed floor.

LR350D receptacle uses 3/4" #9 expanded steel mesh. A 5/16" rod is used to join the end of the fabricated metal to form the seam of its diameter. A 1/2" steel rod is used to add support at the bottom. A 3/4" steel tube is used to add support at the top. The bottom is supported by a 14 gage sheet formed floor.

RV5000 receptacle uses 1/2" rod as main body held in place with 1/4" steel plate. A 1/8" strip at the top and a 10 gage band at the bottom is used to bind the receptacle perimeter. The bottom is supported by a 14 gage sheet formed floor. Receptacle legs consist of 4" diameter steel tubing.

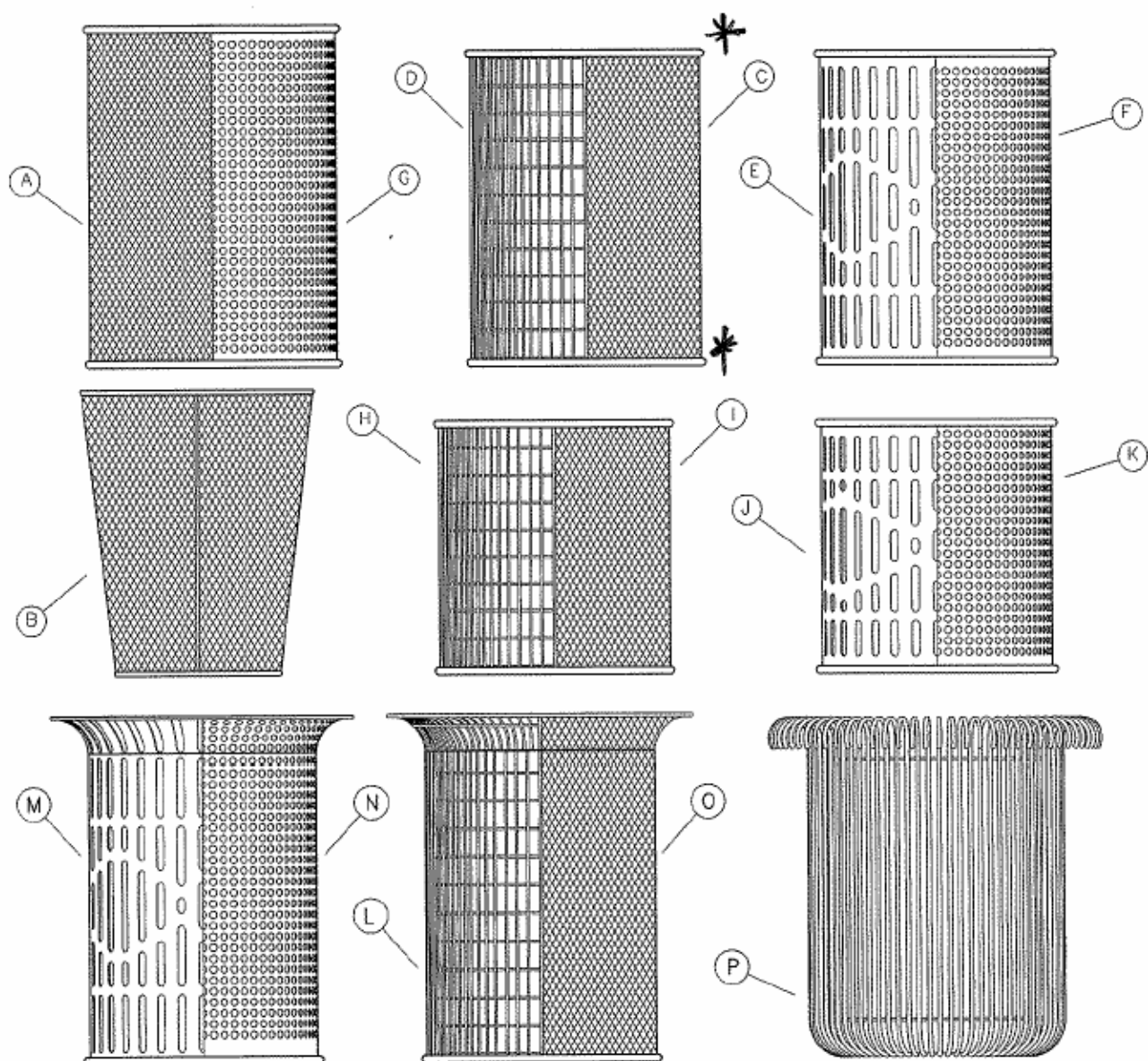
The clips, to support the flat top/dome, each sold separately, are constructed of 1/8" x 3/4" x 1" angle iron.

LEG PACKAGES:

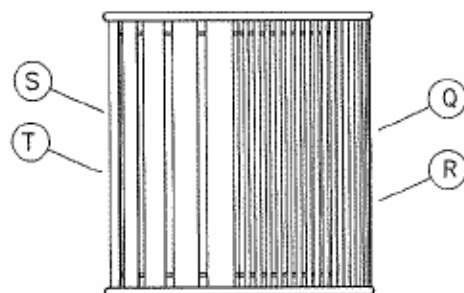
Leg packages AU105N, LR100N and LR105N consist of 2 3/8" od x 12 gage galvanized structural steel tubing. All leg packages use 14 gage sheet steel for the mounting plate and gussets to add support. The surface mount leg uses 1/4" plate steel for its surface mount plate.

Specifications continued on page 3.

parts identification/product dimensions:



ITEM	PART#	DESCRIPTION	QTY
A	9589	55 GAL EXPANDED METAL RECEPTACLE	1
B	7903	32 GAL EXPANDED METAL TAPERED RECEPTACLE	1
C	9557	32 GAL EXPANDED METAL RECEPTACLE	1
D	9558	32 GAL WELDED WIRE RECEPTACLE	1
E	9559	32 GAL RIB RECEPTACLE	1
F	9560	32 GAL PERFORATED RECEPTACLE	1
G	9588	55 GAL PERFORATED RECEPTACLE	1
H	9580	22 GAL EXPANDED METAL RECEPTACLE	1
I	9581	22 GAL WELDED WIRE RECEPTACLE	1
J	9582	22 GAL RIB RECEPTACLE	1
K	9583	22 GAL PERFORATED RECEPTACLE	1
L	9562	32 GAL WELDED WIRE FLARE RECEPTACLE	1
M	9563	32 GAL RIB FLARE RECEPTACLE	1
N	9564	32 GAL PERFORATED FLARE RECEPTACLE	1
O	9561	32 GAL EXPANDED METAL FLARE RECEPTACLE	1
P	9599	32 GAL ROD FLARE RECEPTACLE	1
Q	9595	22 GAL ROD RECEPTACLE	1
R	9597	32 GAL ROD RECEPTACLE	1
S	9596	22 GAL SLAT RECEPTACLE	1
T	9598	32 GAL SLAT RECEPTACLE	1
U	9590	32 GAL RELEVÉ RECEPTACLE, SEE PAGE 5	1



parts identification/product dimensions continued:

LIDS:

FT100N, FT110N and FT200N consist of 18 gage steel. FT100N overall diameter is 22 7/8" and 1 3/4" length skirt with opening of 8" diameter. FT110N overall diameter is 22 7/8" and 1 3/4" length skirt with opening of 14" diameter. FT200N overall diameter is 24 1/4" and 2" length skirt with opening of 8" diameter.

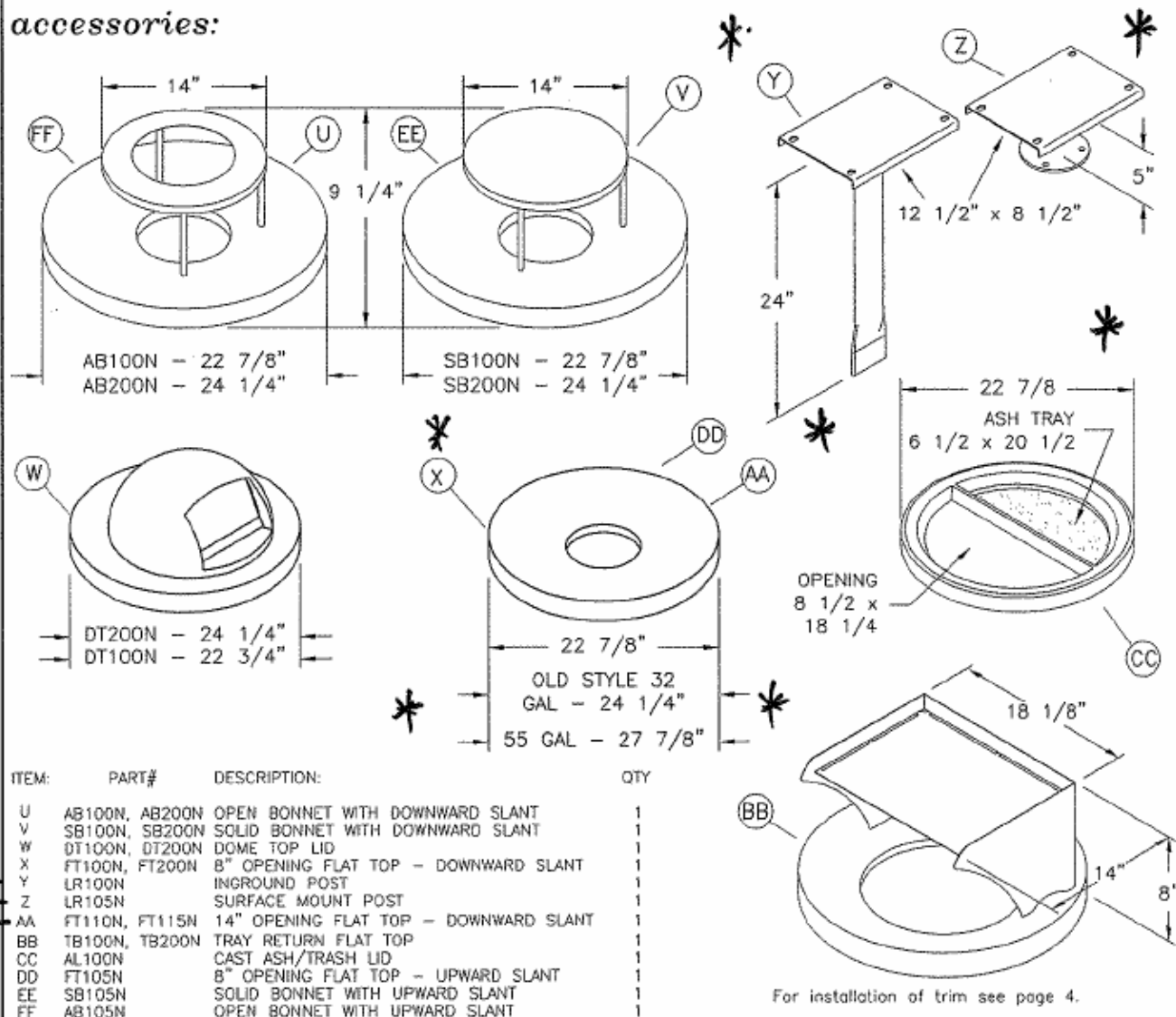
FT115N consist of 18 gage steel with opening of 14" diameter, overall diameter is 24 7/8" and 2 3/4" length skirt.

DT100N and DT200N consist of 3/16" thick injection molded structural thermo plastic. Dome is 10" high x 18" in diameter. Hole opening is 10" x 7 1/2" with spring loaded swing type door. DT100N base is 22 3/4" in diameter with a skirt length of 1 5/8". DT200N base is 24 3/4" in diameter with a skirt length of 2 5/8".

SB100N, SB200N and AB100N consist of FT100N top with solid bonnet or ash tray on it. TB100N and TB200N consist of FT110N top with tray return made of 14 gage galvanized. The shelf is 14" deep, 18" wide and is 8" above the flat top. Trim material is flexible embossed vinyl metal core.

AL100N is a cast aluminum ash and trash lid and is 22 7/8" od with a 2" length skirt.

accessories:



ITEM:	PART#	DESCRIPTION:	QTY
U	AB100N, AB200N	OPEN BONNET WITH DOWNWARD SLANT	1
V	SB100N, SB200N	SOLID BONNET WITH DOWNWARD SLANT	1
W	DT100N, DT200N	DOME TOP LID	1
X	FT100N, FT200N	8" OPENING FLAT TOP - DOWNWARD SLANT	1
Y	LR100N	INGROUND POST	1
Z	LR105N	SURFACE MOUNT POST	1
AA	FT110N, FT115N	14" OPENING FLAT TOP - DOWNWARD SLANT	1
BB	TB100N, TB200N	TRAY RETURN FLAT TOP	1
CC	AL100N	CAST ASH/TRASH LID	1
DD	FT105N	8" OPENING FLAT TOP - UPWARD SLANT	1
EE	SB105N	SOLID BONNET WITH UPWARD SLANT	1
FF	AB105N	OPEN BONNET WITH UPWARD SLANT	1

Not Shown: Ash Tray Insert - Replacement part number: 19064

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.

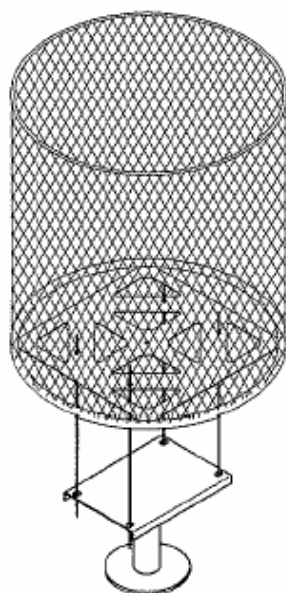
During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. **After final adjustment and leveling, permanently tighten all nuts, bolts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

FIG. 1

STEP 1: Place inground post in concrete footer, making sure to keep post perpendicular to the ground, and allowing 5" of clearance between the ground and mounting plate.

STEP 2: After allowing concrete to harden, 48 hours, place the trash receptacle on the mounting plate. Align the holes in the trash receptacle base plate and the holes in the mounting plate of the inground post, see FIG. 1.

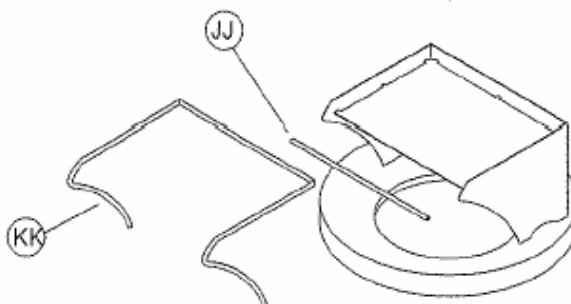
STEP 3: Bolt trash receptacle using four (GG) and (II) with two (HH) per (GG).



TRIM INSTALLATION

STEP 1: Using rubber mallet and starting at one end, gently tap (JJ) in place on front edge of tray return shelf.

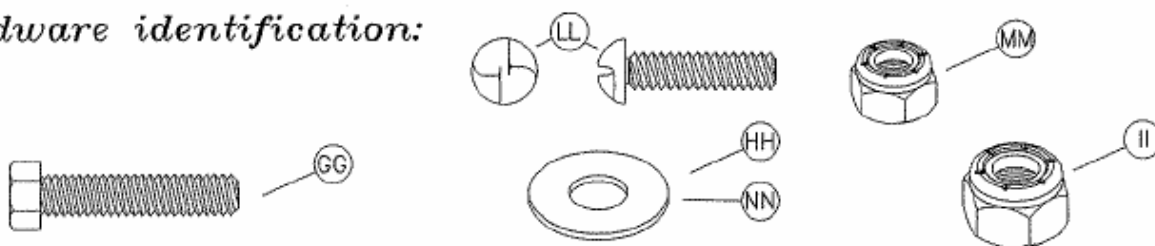
STEP 2: Using rubber mallet and starting at one end, gently tap (KK) onto front and top edge of vertical support of tray return.



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.

hardware identification:



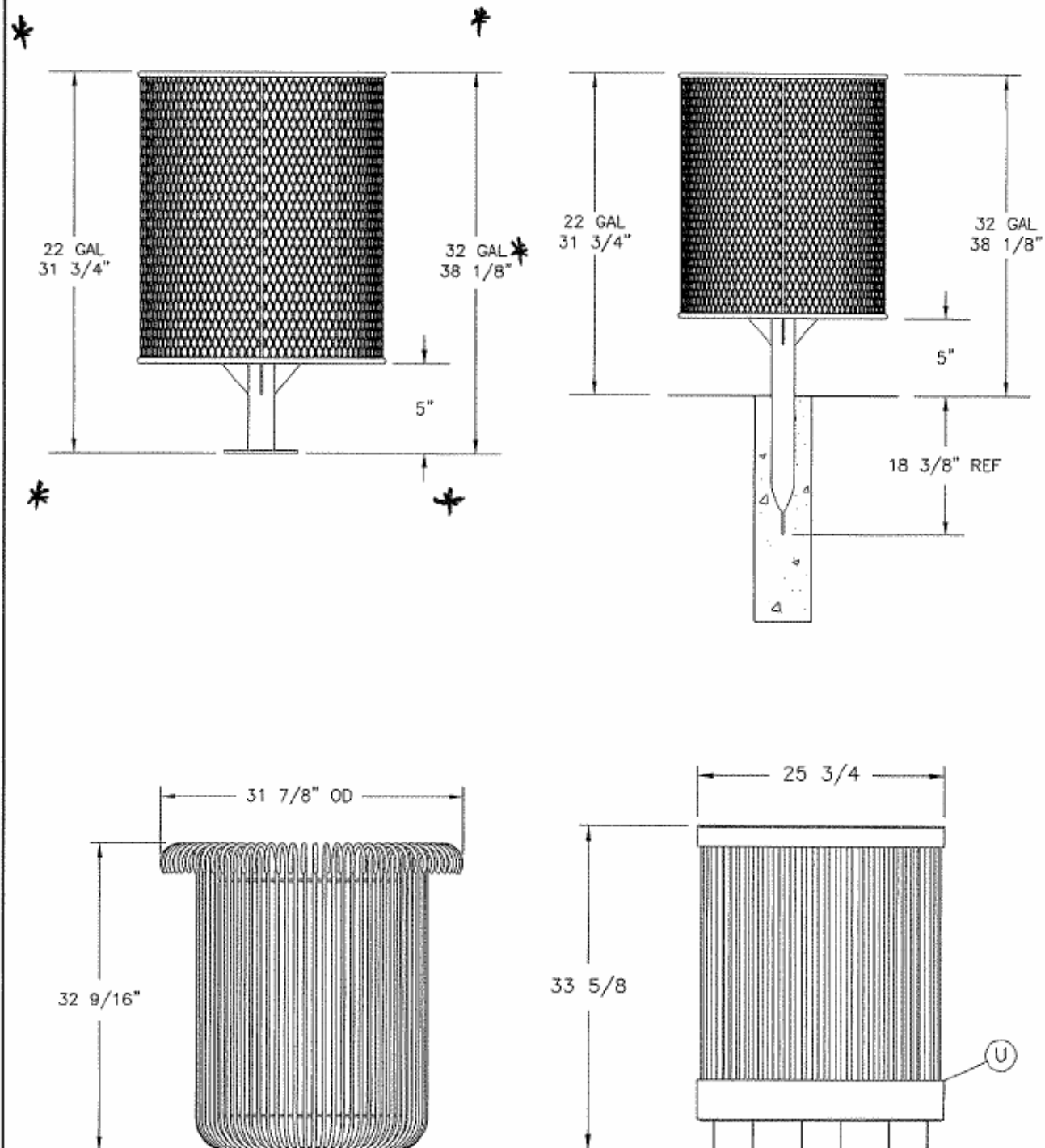
ITEMS INCLUDED IN HARDWARE PACKAGE:

ITEM	PART#	DESCRIPTION:	#21014	#21075	#21027
GG	17011	5/16-18 x 1 1/2" HEX HEAD BOLT - SS	4	0	0
HH	17028	3/8" FLAT WASHER - SS	8	0	0
II	17032	5/16-18 NYLOC NUT - SS	4	0	0
JJ	19045	TRIM x 18" LONG	0	1	0
KK	19045	TRIM x 71 3/4" LONG	0	1	0
LL	17008	1/4-20 x 1 1/4" ONE WAY MACHINE SCREW - SS	0	2	2
MM	17016	1/4-20 NYLOC NUT - SS	0	2	2
NN	17103	1/4" FLAT WASHER - SS	0	4	4
PP	19067	12" WIRE ROPE ASSEMBLY	0	1	1

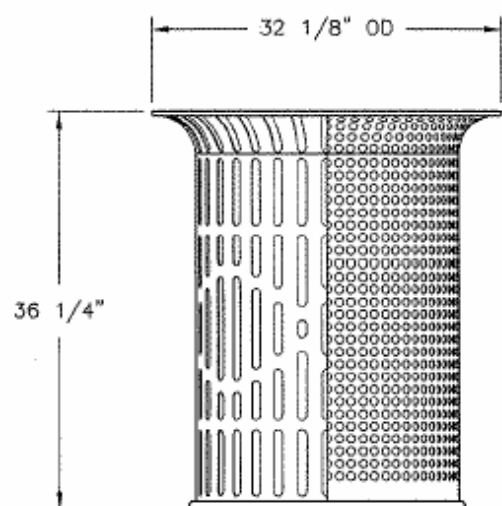
ASSEMBLY TOOLS REQUIRED

- 1 - 3/8" WRENCH
- 1 - FLAT SCREWDRIVER
- 2 - 1/2" WRENCHES
- 1 - 3' OR 6' LEVEL
- 1 - RUBBER Mallet

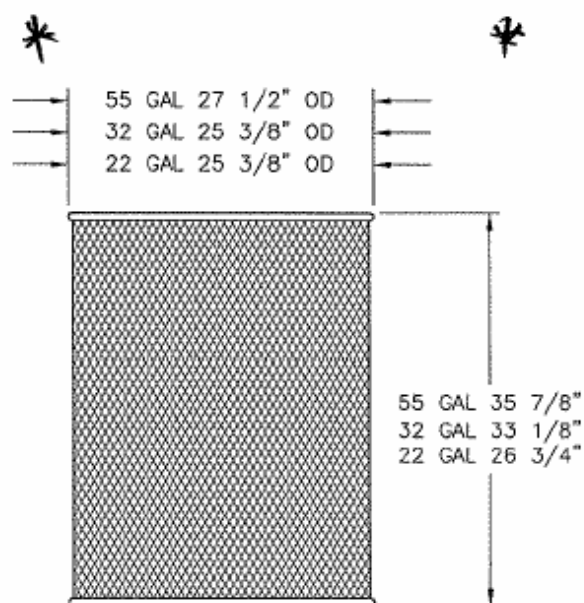
finished assembly dimensions:



specifications cont'd:



FLARE RECEPTACLE DIMENSIONS



RECEPTACLE DIMENSIONS