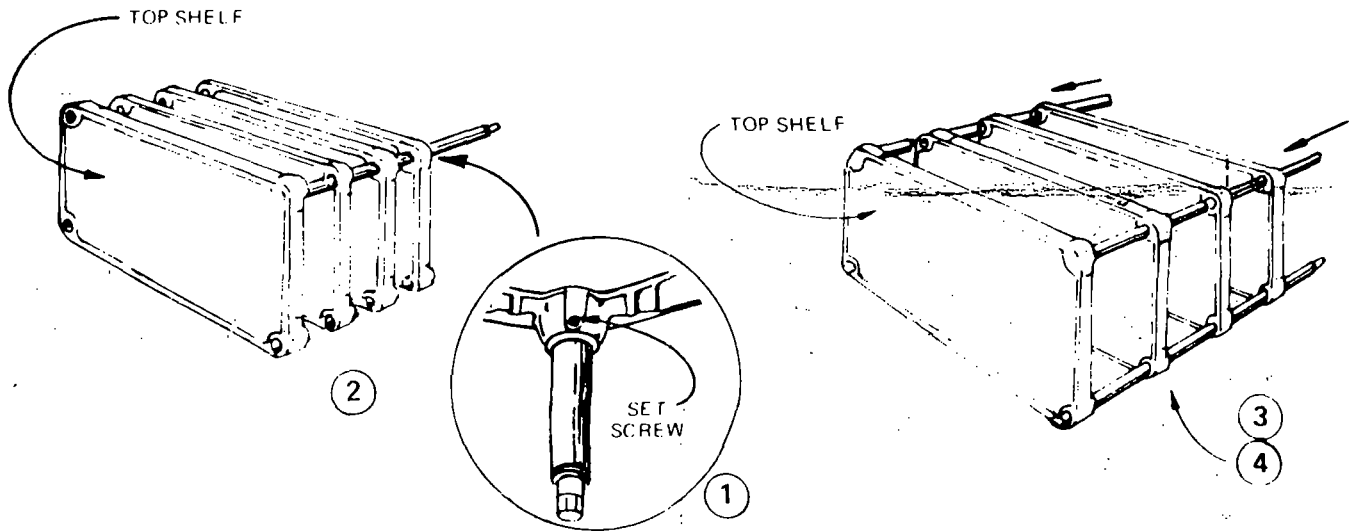


PART A

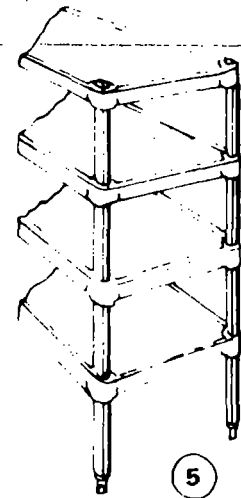
ASSEMBLING A 4-TIER STATIONARY UNIT



1. INSERT SET SCREWS IN CORNER BRACKETS. BE SURE SCREW DOES NOT EXTEND INTO HOLE OF CORNER BRACKET DURING ASSEMBLY.

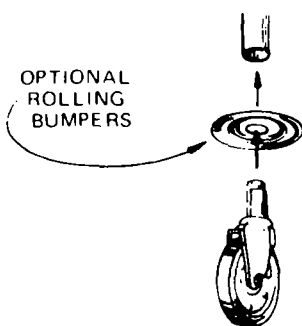
IMPORTANT NOTE: ALWAYS SLIDE POST THROUGH BOTTOM OF HOLE IN CORNER BRACKET OF SHELF.

2. SLIDE FIRST POST THROUGH BOTTOM OF HOLE IN CORNER BRACKET OF ALL FOUR SHELVES.
3. SPACE SHELVES AT DESIRED POSITION ON POST, BEGINNING WITH BOTTOM SHELF AND TIGHTEN SET SCREWS. USE MARKS ON POST AS SPACING GUIDE.
4. SLIDE IN OTHER THREE POSTS. FOLLOW STEP 3 WITH SECOND, THIRD AND FOURTH POSTS.
5. STAND COMPLETED UNIT. LEVEL IN POSITION WITH ADJUSTABLE FEET.



PART B

ASSEMBLING A MOBILE UNIT

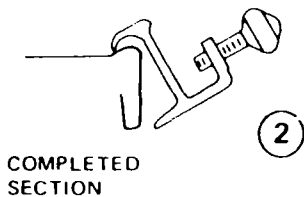


1. USING A COMPLETED STATIONARY UNIT (see Part A) REMOVE ADJUSTABLE FOOT FROM THE BOTTOM OF EACH POST
2. INSERT CASTER STEM INTO LEG OF POST.
3. IF BOTTOM SHELF IS WITHIN 3" OF BOTTOM OF POST, LOOSEN EACH SET SCREW ON THE BOTTOM SHELF BEFORE INSERTING CASTER.

NOTE: FOR GREATER RIGIDITY, PLACE BOTTOM SHELF FLUSH WITH BOTTOM OF POST.

PART C

ASSEMBLING ADD-ON UNITS



COMPLETED SECTION



1. ASSEMBLE THE ADD ON UNIT THE SAME WAY AS THE STATIONARY UNIT (see Part A) EXCEPT INSTALL TWO POSTS ONLY IN ONE END OF SHELVES.

NOTE: ALWAYS SLIDE POST THROUGH BOTTOM OF HOLE IN CORNER BRACKET OF SHELF.

2. SNAP ON SHELF CLIP TO COMPLETED STATIONARY UNIT. POSITION CLIPS CLOSE TO EACH CORNER.

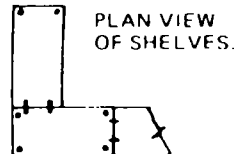
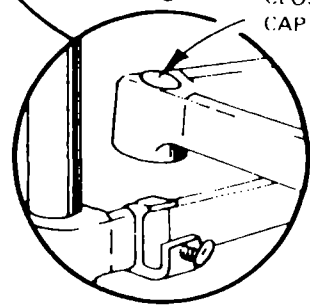
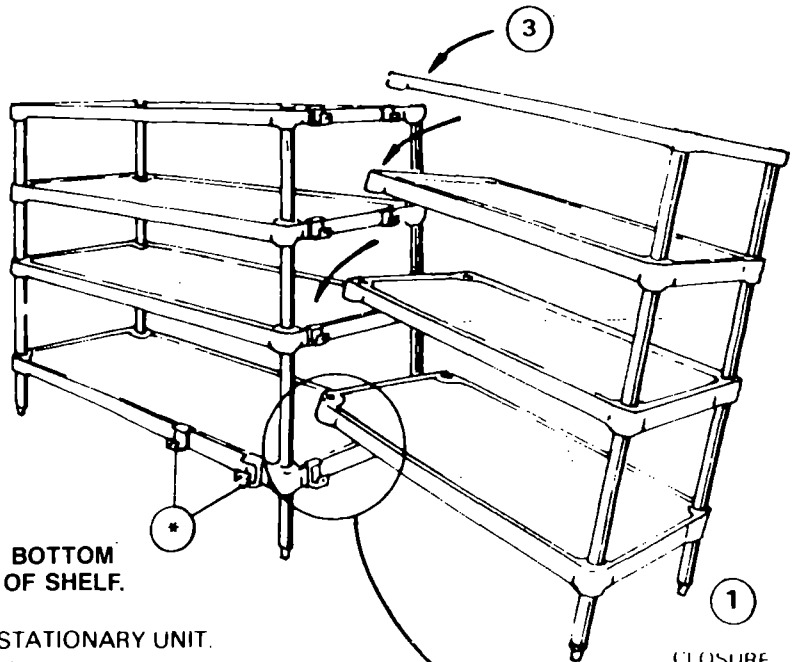
NOTE: SHELF CLIPS WILL NOT HOLD SHELVES IF INSTALLED ON HANGING UNIT.

3. STAND ADD-ON UNIT AND LET SHELVES OF NON-POSTED END FALL INTO SHELF CLIPS

4. TIGHTEN THUMB SCREW TO SECURE SHELVES.

5. INSTALL CLOSURE CAPS IN OPEN POST HOLES.

• **NOTE: WHEN ADDING AN "L" SECTION PLACE SHELF CLIPS ON SIDE OF STATIONARY UNIT.**



PART D

ASSEMBLING A COUNTER UNIT

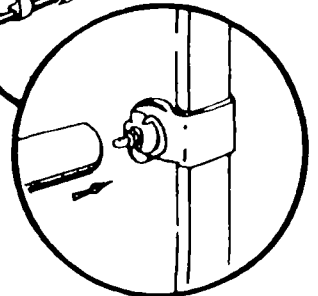
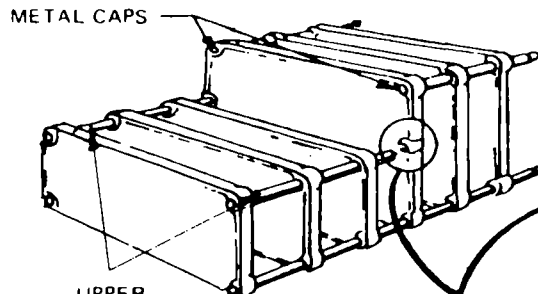
1. ASSEMBLE SHELVES THE SAME AS PART 'A' EXCEPT SLIDE IN LONGEST BACK POSTS FIRST, SHORT BOTTOM POSTS SECOND & SHORT UPPER POSTS LAST.

NOTE: ALWAYS SLIDE POST THROUGH BOTTOM OF HOLE IN CORNER BRACKET OF SHELF.

2. SNAP ON SIDE COUNTER FITTINGS TO MEET UPPER FRONT POSTS.

3. STAND UPRIGHT. INSERT METAL CLOSURE CAPS.

4. MOUNT ADJACENT SHELF UNITS AS SHOWN IN PART 'C'.

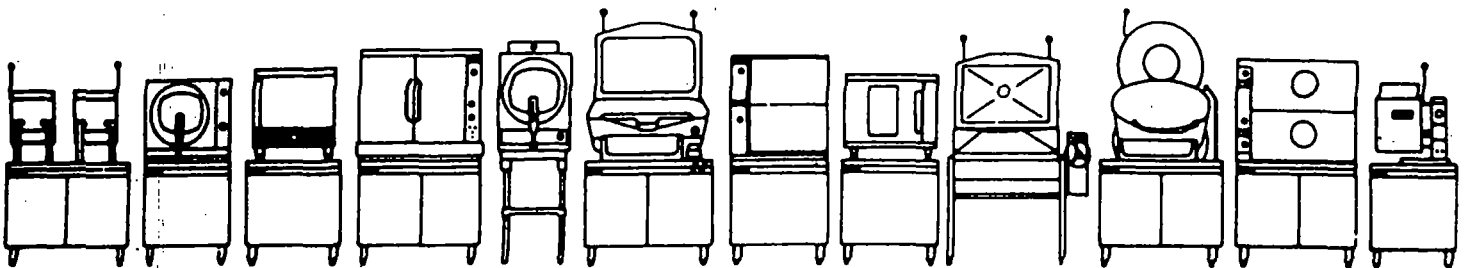




MARKET FORGE
INDUSTRIES, INC.

An Employee Owned Company

**DIRECTORY OF
AUTHORIZED SERVICE &
PARTS DISTRIBUTORS FOR
FOODSERVICE EQUIPMENT**



35 Garvey Street, Everett, MA 02149

Tel: (617) 387-4100, Telex: 94-9414

Fax: #617-387-4456

800-227-2659



MADE IN THE USA

FORM NUMBER S-100J 01/9, REV. 1/96

United States

ALABAMA

JONES MCLEOD APPLIANCE

1616 Seventh Ave. North
Birmingham, AL 35203
Phone: (205) 251-0159
(800) 821-1150 (USA)
Fax: (205) 322-1440

ALASKA

RESTAURANT APPLIANCE

7219 Roosevelt Way, N.E.
Seattle, WA 98115
Phone: (206) 524-8200
(800) 433-9390
Fax: (206) 525-2890

ARIZONA

AUTHORIZED COMMERCIAL SERVICE

1938 East Osborn Rd.
Phoenix, AZ 85016
Phone: (602) 234-2443
(800) 824-8875(AZ)
Fax: (602) 230-8225

ARKANSAS

BROMLEY PARTS & SERVICE

806 Izard
Little Rock, AR 72201
Phone: (501) 374-0281
(800) 482-9269 (USA)
Fax: (501) 374-8352

CALIFORNIA

RIDGE ELECTRIC CO.

1235 G St.
Fresno, CA 93706
Phone: (209) 268-5031
(800) 300-2337 (CA)
Fax: (209) 268-8315

GCS SERVICE

946 East 12th St.
Los Angeles, CA 90021
Phone: (213) 749-7785
(800) 327-1433 (USA)
Fax: (213) 749-7788

AMSTAR COMM

15024 Staff Court
Gardena, CA 90248
Phone: (310) 719-1194
(800) 797-7267
Fax: (310) 719-1494

GCS SERVICE

650 South Grand
Suite 111
Santa Ana, CA 92705
Phone: (714) 542-1798
(800) 540-0719
Fax: (714) 542-4787

GCS SERVICE

9030 Kenamar Dr., Suite 313
San Diego, CA 92121
Phone: (619) 549-8411
(800) 422-7278 (CA)
Fax: (619) 549-2323

GCS SERVICE

150 Associated Rd.
S. San Francisco, CA 94080
Phone: (415) 871-6693
(800) 969-4427
Fax: (415) 871-4019

COLORADO

HAWKINS APPLIANCE

3000 S. Wyandot St.
Englewood, CO 80110
Phone: (303) 781-5548
(800) 624-2117
Fax: (303) 761-8861

CONNECTICUT

A-TECH, INC.

161 Sanrico Dr.
Manchester, CT 06040
Phone: (203) 649-6627
(800) 832-8324
Fax: (203) 649-7882
Remit to: P.O. Box 146
Manchester, CT 06045

DELAWARE

ELMER SCHULTZ SERVICES

36 Belmont Ave.
Wilmington, DE 19804
Phone: (302) 655-8900
Fax: (302) 656-3673

DISTRICT OF COLUMBIA

G.C.S. SERVICE INC.

2660 Pittman Drive
Silver Spring, MD 20910
Phone: (301) 585-7550
(800) 638-7278
Fax: (301) 495-4410

FLORIDA

CLINE COMMERCIAL SERVICE

927 W. Forsyth St.
Jacksonville, FL 32204
Phone: (904) 356-7986
Fax: (904) 356-1805

NASS SERVICE CO., INC.

1180 S. Woods Ave.
Orlando, FL 32805
Phone: (407) 425-2681
(800) 432-2795 (USA)
Fax: (407) 425-3463

COMMERCIAL APPLIANCE SERVICE

2101 W. Hillsborough Ave.
Tampa, FL 33603
Phone: (813) 879-2461
(800) 282-4718 (FL)
Fax: (813) 875-6438

GCS SERVICE

3902 Corporex Park Drive
Tampa, FL 33619
Phone: (813) 626-6044
(800) 282-3008
Fax: (813) 621-1174

RELIANCE SERVICE CO.

8225 Sedgefield Drive
Pensacola, FL 32507
Phone: (904) 456-3663
Fax: (904) 456-7294

GCS SERVICE

3373 N.W. 168th ST.
Miami, FL 33056
Phone: (305) 621-6666
Fax: (305) 621-6656

ALT SERVICE

5621 Crawfordville Rd.
Tallahassee, FL 32310
Phone: (904) 878-5343
Fax: (904) 656-6810

GEORGIA

GCS SERVICE

3127 Presidential Dr.
Atlanta, GA 30340
Phone: (770) 452-7322
(800) 334-3599 (USA)
Fax: (770) 452-7473

FOOD EQUIP SERVICE

424 Parkwest W. Drive
Grovetown, GA 30813
Phone: (706) 855-7811
Fax: (706) 855-7311

FOOD SERVICE EQUIPMENT

514 Main St. S.W.
Gainesville, GA 30501
Phone: (770) 535-3715
(800) 282-9949 (GA)
Fax: (770) 535-1476

HAGINS APPLIANCE

3 W. Victory Drive
Savannah, GA 31405
Phone: (912) 233-8372
Fax: (912) 234-3133

TOTAL SERVICE CO.

850 Hillcrest Industrial Boulevard
Macon, GA 31204
Phone: (912) 743-6505
(800) 822-4696
Fax: (912) 741-1848

HAWAII**FOOD EQUIPMENT PARTS & SRV.**

300 Puuhale Rd.
Honolulu, HI 96819
Phone: (808) 847-4871
Fax: (808) 842-1560

IDAHO**CONTRACT SERVICE INC.**

3222 S. Washington St.
Salt Lake City, UT 84115
Phone: (801) 484-4402
Fax: (801) 484-0652

RESTAURANT APPLIANCE

7219 Roosevelt Way N.E.
Seattle, WA 98115
Phone: (206) 524-8200
(800) 433-9390 (WA)
Fax: (206) 525-2890

ARCO ELECTRIC SERVICE

2000 S.E. 7th Ave.
Portland, OR 97214
Phone: (503) 234-9393
Fax: (503) 236-9166

ILLINOIS**EICHENAUER SERVICES INC.**

130 S. Oakland Ave.
Decatur, IL 62522
Phone: (217) 429-4229
(800) 252-5892 (IL)
(800) 342-0240 (USA)
Fax: (217) 429-0226

GCS SERVICE

696 Larch Ave.
Elmhurst, IL 60126
Phone: (708) 941-7800
(800) 942-9689
Fax: (708) 941-6048

GCS SERVICE

9722 Reavis Park Drive
St. Louis, MO 63123
Phone: (314) 638-7444
(800) 284-4GCS (USA)
Fax: (314) 638-0135

COMMERCIAL PARTS & SERVICE

4204 Brook St.
Louisville, KY 40214
Phone: (502) 367-1788
(800) 752-6160 (USA)
Fax: (502) 367-0400

CONES REPAIR SERVICE

2408 40th Ave.
Moline, IL 61265
Phone: (309) 797-5323
(800) 716-7070 (USA)
Fax: (309) 797-3631

INDIANA**COMMERCIAL PARTS & SERVICE**

4204 Brook St.
Louisville, KY 40214
Phone: (502) 367-1788
(800) 752-6160 (USA)
Fax: (502) 367-0400

BEST KIT SVC & PTS

1775 N. Sherman Drive
Suite D
Indianapolis, IN 46218
Phone: (317) 352-9706
(800) 956-5568 (USA)
Fax: (317) 352-8204

GCS SERVICE

696 Larch Ave.
Elmhurst, IL 60126
Phone: (708) 941-7800
(800) 942-9689
Fax: (708) 941-6048

IOWA**GENERAL PARTS**

11311 Hampshire Ave. So.
Bloomington, MN 55438-2456
Phone: (612) 944-5800
(800) 279-9980
Fax: (612) 944-7101
(800) 279-9981

CONE'S REPAIR SERVICE

2408 40th Ave.
Moline, IL 61265
Phone: (309) 797-5323
(800) 716-7070 (USA)
Fax: (309) 797-3631

GOODWIN TUCKER GROUP

815 N. 19th St.
Omaha, NE 68102
Phone: (402) 345-7400
(800) 228-0342 (USA)
Fax: (402) 346-6145

KANSAS**GCS SERVICE**

2213 Riverfront Dr.
Kansas City, MO 64120
Phone: (816) 472-6477
(800) 229-6477 (USA)
Fax: (816) 472-6134

KENTUCKY**COMMERCIAL PARTS & SERVICE**

6940 Plainfield Rd.
Cincinnati, OH 45236
Phone: (513) 984-1900
(800) 837-2828 (OH)
Fax: (513) 984-2111

CERTIFIED SERVICE CENTER

1051 Goodwin Drive
Lexington, KY 40505-3809
Phone: (606) 254-8854
(800) 432-9269
Fax: (606) 231-7781

CERTIFIED SERVICE CENTER

4340 Sanita Ct. Suite F
Louisville, KY 40213-1829
Phone: (502) 459-7199
(800) 637-6350
Fax: (502) 459-8022

COMMERCIAL PARTS & SERVICE

1002 Nandino Boulevard
Lexington, KY 40511
Phone: (606) 255-0746
(800) 432-9260
Fax: (606) 255-0748

COMMERCIAL PARTS & SERVICE

4204 Brook St.
Louisville, KY 40214
Phone: (502) 367-1788
(800) 752-6160 (USA)
Fax: (502) 367-0400

LOUISIANA**CHANDLER'S PARTS & SERVICE**

11656 Darryl Drive
Baton Rouge, LA 70815
Phone: (504) 272-6620
(800) 349-8888 (USA)
Fax: (504) 272-7168

BANA PARTS

4028 Greenwood Rd.
Shreveport, LA 71109
Phone: (318) 631-6550
(800) 832-6550
Fax: (318) 636-5675

RELIANCE COMMERCIAL SERVICE

5515A Pepsi St.
Harahan, LA 70123
Phone: (504) 734-8864
Fax: (504) 733-2559

MAINE**SCRIBNER & IVERSON**

54 Warren Avenue
Portland, ME 04103
Phone: (207) 797-9441
(800) 244-9441 (ME)
Fax: (207) 878-2250

MARYLAND**AUTHORIZED FACTORY SERVICE**

1010 First Ave.
Coraopolis, PA 15108
Phone: (412) 262-2330
(800) 222-8767 (USA)
Fax: (412) 262-2245

ELMER SCHULTZ SERVICES

540 N. Third St.
Philadelphia, PA 19123
Phone: (215) 627 5400
Fax: (215) 627-5408

G.C.S. SERVICE INC.

2660 Pittman Drive
Silver Spring, MD 20910
Phone: (301) 585-7550
(800) 638-7278
Fax: (301) 495-4410

MASSACHUSETTS**Eastern Area**

GCS SERVICE
815 Cambridge St.
Cambridge, MA 02141
Phone: (617) 661-1050
(800) 225-1155
Fax: (617) 661-7075

Western Area

A-TECH, INC.
161 Sanrico Dr.
Manchester, CT 06040
Phone: (203) 649-6627
(800) 832-8324
Remit to: P.O. Box 146
Manchester, CT 06045
Fax: (203) 649-7882

Cape Cod Area

MARSHALL ELECTRIC CO.
200 Broad St.
Providence, RI 02903
Phone: (401) 331-1163
(800) 356-0411 (RI)
Fax: (401) 521-5560

MICHIGAN**GCS SERVICE, INC.**

21477 Bridge St.
Suite "B"
Southfield, MI 48034
Phone: (810) 354-5500
(800) 772-2936 (USA)
Fax: (810) 354-5505

MIDWEST FOOD EQUIPMENT

4501 K.L. Ave. West
Kalamazoo, MI 49007
Phone: (616) 372-1012
(800) 288-7050 (USA)
Fax: (616) 372-1054

MIDWEST FOOD EQUIPMENT

3055 Dixie
Grandville, MI 49418
Phone: (616) 261-2000
(800) 288-7060 (USA)
Fax: (616) 261-2020

MINNESOTA**GENERAL PARTS & SUPPLY**

10 South 18th St.
Fargo, ND 58103
Phone: (701) 235-4161
(800) 279-9987 (USA)
Fax: (701) 235-0539

GENERAL PARTS

11311 Hampshire Ave. So.
Bloomington, MN 55438-2456
Phone: (612) 944-5800
(800) 279-9980 (USA)
Fax: (612) 944-7101
(800) 279-9981

MISSISSIPPI**CAMP ELECTRIC CO. INC.**

647 Madison ST.
Memphis, TN 38103
Phone: (901) 527-7543
(800) 238-7345 (USA)
Fax: (901) 526-3379

RELIANCE COMMERCIAL SERVICE

5515A Pepsi St.
Harahan, LA 70123
Phone: (504) 734-8864
Fax: (504) 733-2559

MISSOURI**GCS SERVICE**

2213 Riverfront Dr.
Kansas City, MO 64120
Phone: (816) 472-6477
(800) 229 6477 (USA)
Fax: (816) 472-6134

GCS SERVICE

9722 Reavis Park Drive
ST. Louis, MO 63123
Phone: (314) 638-7444
(800) 284-4GCS (USA)
Fax: (314) 638-0135

MONTANA**HAWKINS APPLIANCE**

3000 S. Wyandot St..
Englewood, CO 80110
Phone: (303) 781-5548
(800) 624-2117
Fax: (303) 761-8861

NORTHWEST FIXTURE SUPPLY

1050 S. 25th St. W.
 Billings, MT 59102
 Phone: (406) 652-6151
 (800) 548-7600
 Fax: (406) 652-6828

NEBRASKA**GOODWIN TUCKER GROUP**

815 N. 19th St.
 Omaha, NE 68102
 Phone: (402) 345-7400
 (800) 228-0342
 Fax: (402) 346-6145

NEVADA**BURNEY'S COMMERCIAL SERVICE**

4480 Aldebaran Ave.
 Las Vegas, NV 89103
 Phone: (702) 736-0006
 Fax: (702) 798-7531

NEW HAMPSHIRE**CASCO FD. EQUIPMENT**

10 Dunkle Rd.
 Bow, NH 03304
 Phone: (603) 224-2663
 (800) 660-2058
 Fax: (603) 224-9173

NEW JERSEY**ACME AMERICAN REPAIRS**

99 Scott Ave.
 Brooklyn, NY 11237
 Phone: (718) 456-6544
 (800) 221-3026 (USA)
 Fax: (718) 366-5359

ELMER SCHULTZ SERVICES

201 W. Washington Ave.
 Pleasantville, NJ 08232
 Phone: (609) 641-0317
 Fax: (609) 641-8703

NEW MEXICO

DEL OCO CO.
 3000 Dover Rd. S.W.
 Albuquerque, NM 87105
 Phone: (505) 877-3001
 Fax: (505) 877-7145

NEW YORK**APPLIANCE INSTALLATION**

1336 Main St.
 Buffalo, NY 14209
 Phone: (716) 884-7425
 (800) 722-1252 (USA)
 Fax: (716) 884-0410

NORTHERN PARTS & SERVICE

4874 S. Catherine
 Plattsburgh, NY 12901
 Phone: (518) 563-3200
 (800) 634-5005 (USA)
 Fax: (518) 563-3219

DUFFY'S RESTAURANT

3138 Oneida St.
 Sauquoit, NY 13456
 Phone: (315) 737-9401
 (800) 443-8339 (NY)
 Fax: (315) 737-7132

ACME AMERICAN REPAIRS INC.

99 Scott Ave.
 Brooklyn, NY 11237
 Phone: (718) 456-6544
 (800) 221-3026 (USA)
 Fax: (718) 366-5359

J.B. BRADY INC.

695 Atlantic Ave.
 Rochester, NY 14609
 Phone: (716) 482-6967
 Fax: (716) 482-6759

J.B. BRADY INC.

811N Alvord St.
 Syracuse, NY 13208
 Phone: (315) 422-9271
 (800) 522-7239
 Fax: (315) 472-5400

NORTH CAROLINA**WHALEY FOODSERVICE REPAIRS**

1-26 At US 1
 W. Columbia, SC 29170
 Phone: (803) 791-4420
 (800) 877-2662 (USA)
 Fax: (803) 794-4630

WHALEY FOODSERVICE REPAIRS

(Service only)
 8334-K Arrowridge Blvd.
 Charlotte, NC 28273
 Phone: (704) 529-6242
 (800) 877-3599
 Fax: (704) 529-1558

WHALEY FOODSERVICE REPAIRS

(Service only)
 335-105 Sherwee Drive
 Raleigh, NC 27603
 Phone: (919) 779-2266
 (800) 849-6011
 Fax: (919) 779-2224

WHALEY FOODSERVICE REPAIRS

(Service only)
 203-D Creek Ridge Road
 Greensboro, NC 27406
 Phone: (910) 333-2333
 (800) 800-0807
 Fax: (910) 333-2533

WHALEY FOODSERVICE REPAIRS

(Service only)
 6420-A Amsterdam Way
 Wilmington, NC 28405
 Phone: (910) 791-0000
 (800) 758-2314
 Fax: (910) 791-6020

NORTH DAKOTA**GENERAL PARTS & SUPPLY**

10 South 18th St.
 Fargo, ND 58103
 Phone: (701) 235-7407
 (800) 279-9987 (USA)
 Fax: (701) 235-0539

OHIO**ARR/CRS-AKRON REST REPAIR**

1169 W. Waterloo Rd.
 Akron, OH 44314
 Phone: (216) 753-6634
 (800) 589-6634
 Fax: (216) 753-7244

COMMERCIAL PARTS & SERVICE

6940 Plainfield Rd.
 Cincinnati, OH 45236
 Phone: (513) 984-1900
 (800) 837-2828 (OH)
 Fax: (513) 984-2111

DMO FD EQ SVC INC.

8001 Sweet Valley Dr.
 Valley View, OH 44125
 Phone: (216) 328-0600
 (800) 837-0605 (US)
 Fax: (216)-328-0604

ARR/CRS-COLUMBUS RESTAURANT REPAIR
2830 Johnstown Rd.
Columbus, OH 43219
Phone: (614) 476-3225
(800) 282-5406 (USA)
Fax: (614) 476-1196

STEWART'S TRI STATE SERVICE CO.
2324 East Third St.
Dayton, OH 45403
Phone: (513) 256-7600
(800) 365-7600
Fax: (513) 821-5609

OKLAHOMA

HAGAR EQUIPMENT REPAIR
1229 W. Main St.
Oklahoma City, OK 73106
Phone: (405) 235-2184
(800) 445-1791 (OK)
Fax: (405) 236-5592

OREGON

ARCO ELECTRIC SERVICE
2000 S.E. 7th Ave.
Portland, OR 97214
Phone: (503) 234-9393
Fax: (503) 236-9166

PENNSYLVANIA

K & D SERVICE CO.
1833 North Cameron St.
Harrisburg, PA 17103
Phone: (717) 236-9039
(800) 932-0503 (PA)
Fax: (717) 238-4367

ELMER SCHULTZ SERVICES
540 N. Third St.
Philadelphia, PA 19123
Phone: (215) 627-5400
(800) 762-7906 (TRI STATE)
Fax: (215) 627-5408

AUTHORIZED FACTORY SERVICE
1010 First Ave.
Coraopolis, PA 15108
Phone: (412) 262-2330
(800) 222-8767 (USA)
Fax: (412) 262-2245

ELECTRIC REPAIR CO.
504 N. Ninth St.
Reading, PA 19604
Phone: (610) 376-5444
(800) 422-8171 (PA)
Fax: (610) 376-1400

AUTHORIZED FACTORY SERVICE
220 N. Broad St.
York, PA 17405
Phone: (717) 846-5484
(800) 828-7312 (USA)
Fax: (717) 854-0281

RHODE ISLAND

MARSHALL ELECTRIC CO.
200 Broad St.
Providence, RI 02903
Phone: (401) 331-1163
(800) 356-0411 (RI)
Fax: (401) 521-5560

SOUTH CAROLINA

WHALEY FOODSERVICE REPAIRS
Post Office Box 4023
West Columbia, SC 29171
Shipping: 1-26 At US 1
West Columbia, SC 29170
Phone: (803) 791-4420
(800) 877-2662 (USA)
Fax: (803) 794-4630

WHALEY FOODSERVICE REPAIRS
(Service only)
Post Office Box 14397
Surfside Beach, SC 29587-4397
Shipping: 2456 S. Hwy 17
Garden City, SC 29576
Phone: (803) 651-6800
Fax: (803) 651-9231

WHALEY FOODSERVICE REPAIRS
(Service only)
Post Office Box 60307
N. Charleston, SC 29419-0307
Shipping: 4740-A Franchise St.
N. Charleston, SC 29418
Phone: (803) 760-2110
Fax: (803) 760-2255

FOOD EQ. SERVICE
424 Parkwest W. Drive
Grovetown, GA 30813
Phone: (706) 855-7811
Fax: (706) 855-7311

WHALEY FOODSERVICE REPAIRS
Service only
748 Congaree Ave.
Greenville, SC 29607
Phone: (803) 234-7011
(800) 494-2539
Fax: (803) 234-6662

HAGINS APPLIANCE
3 W. Victory Drive
Savannah, GA 31405
Phone: (912) 233-8372
Fax: (912) 234-3133

SOUTH DAKOTA

GENERAL PARTS & SUPPLY CO. INC.
10 South 18th St.
Fargo, ND 58103
Phone: (701) 235-7407
(800) 279-9987
Fax: (701) 235-0539

TENNESSEE

CAMP ELECTRIC CO. INC.
647 Madison St.
Memphis, TN 381 03
Phone: (901) 527-7543
(800) 238-7345 (USA)
Fax: (901) 526-3379

COMMERCIAL PARTS & SERVICE
470 Woodycrest
Nashville, TN 37210
Phone: (615) 244-8050
(800) 831-7174 (TN)
Fax: (615) 244-8885

SOUND PARTS & SERVICE
1209 S. Watkins St.
Chattanooga, TN 37404
Phone: (615) 624-3381
(800) 727-3383 (TN)
Fax: (615) 624-3383

TEXAS

COMMERCIAL KITCHEN REPAIR
1377 North Brazos St.
San Antonio, TX 78207
P.O. Box 831128
San Antonio, TX 78283
Phone: (210) 735-2811
(800) 292-2120 (USA)
Fax: (210) 735-7421

GCS SERVICES
2422 Arbuckle
Dallas, TX 75229
Phone: (214) 484-2954
(800) 442-5026 (USA)
Fax: (214) 484-2531

ARMSTRONG REPAIR

5750-A Royalton
Houston, TX 77081
Phone: (713) 666-7100
(800) 392-5325 (USA)
Fax: (713) 665-5542 (service)
(713) 661-0520 (parts)

W.H. KIRK CO.

1100 Cordell St.
Houston, TX 77009
Phone: (713) 869-9511
(800) 392-3897
Fax: (713) 861-4625

UTAH**CONTRACT SERVICE INC.**

3222 South Washington St.
Salt Lake City, UT 84115
Phone: (801) 484-4402
Fax: (801) 484-0652

VERMONT**COMMERCIAL SERVICES**

177 River St.
Montpelier, VT 05602
Phone: (802) 223-5110
(800) 479-5110
Fax: (802) 223-0382

VIRGINIA**G.C.S. SERVICE INC.**

2660 Pittman Drive
Silver Spring, MD 20910
Phone: (301) 585-7550
(800) 638-7278
Fax: (301) 495-4410

ELMER SCHULTZ SERVICES

540 N. Third St.
Philadelphia, PA 19123
Phone: (215) 627-5400
(800) 762-7906 (TRI STATE)
Fax: (215) 627-5408

DAUBERS, INC.

5255 Henneman Drive
Norfolk, VA 23513
Phone: (804) 855-4097
Fax: (804) 855-1795

DAUBERS, INC.

1640 Ownby Ln.
Richmond, VA 23220
Phone: (804) 359-9065
(800) 273-9593
Fax: (804) 359-4331

WASHINGTON**RESTAURANT APPLIANCE**

7219 Roosevelt Way, N.E.
Seattle, WA 98115
Phone: (206) 524-8200
(800) 433-9390
Fax: (206) 525-2890

ARCO ELECTRIC SERVICE

2000 S.E. 7th Ave.
Portland, OR 97214
Phone: (503) 234-9393
Fax: (503) 236-9166

WEST VIRGINIA**AUTHORIZED FACTORY SERVICE**

1010 First Ave.
Coraopolis, PA 15108
Phone: (412) 262-2330
(800) 222-8767 (USA)
Fax: (412) 262-2245

AUTHORIZED FACTORY SERVICE

105 A Street
S. Charleston, WV 25303
Phone: (304) 744-7320
(800) 654-4606 (USA)
Fax: (304) 744-6882

WISCONSIN**HEPEX INC.**

9036 N. 51st St.
Brown Deer, WI 53223
Phone: (414) 354-8200
(800) 242-5421 (WI)
Fax: (414) 354-8240

GENERAL PARTS

11311 Hampshire Ave. So.
Bloomington, MN 55438-2456
Phone: (612) 944-5800
(800) 279-9980 (USA)
Fax: (612) 944-7101
(800) 279-9981

WYOMING**HAWKINS APPLIANCE**

3000 S. Wyandot Ave.
Englewood, CO 80110
Phone: (303) 781-5548
(800) 624-2117
Fax: (303) 761-8861

CONTRACT SERVICE INC.

3222 South Washington St.
Salt Lake City, UT 84115
Phone: (801) 484-4402
Fax: (801) 484-0652

Canada**R.G. HENDERSON & SONS LTD.**

100 Thomcliffe Park Drive
Toronto, Ontario, Canada M4H 1G9
Phone: (416) 422-5580
Fax: (416) 422-5514
Serv. (415) 423-HELP
(800) 268-6316

CHOQUETTE-CKS INC.

8487 19 Ave. (Coin Robert)
Montreal, Quebec, Canada H1Z 4J2
Phone: (514) 722-2000
(800) 361-7618 (Canada)
Fax: (514) 722-5050

NORTHSTAR REPAIR

11518 119th St.
Edmonton, Alberta, Canada T5G 2X7
Phone: (403) 453-6213
(800) 661-5695 (Canada)
Fax: (403) 453-8006

RUSSELL FOOD EQUIP. LTD.

70 Coronet Rd.
Toronto, Ontario, Canada M8Z 2M1
Phone: (416) 207-9000
Fax: (416) 207-0519

Europe**AMERICAN CATERING**

5 Chanty Ct.
Sovereign Way
West Park
Chester, England CH1 4QN
Phone: 011-44-244-381281
Fax: 011-44-244-381700

International**J.D. HONIGBERG INT'L**

500 Central Ave.
Northfield, IL 60093
Phone: (847) 446-8646
Fax: (847) 446-8720

MODEL STM-E WARRANTY

We warrant to the original purchaser that Market Forge sterilizers will be free from defects in material and factory workmanship if properly installed and operated under normal conditions.

Within one year from date of original installation, when reported on a warranty card returned to the factory, or within 15 months from date of shipment from factory, whichever is sooner, we will repair or replace FOB Everett, Massachusetts without cost to the customer, that part of any such machine that becomes defective.

This warranty is effective for only 90 days in regard to labor.

This warranty does not apply to damage resulting from use of hard or corrosive water, from failure to drain and dry the cylinder daily, or from inadequate cleaning procedures, nor does it cover any part or assembly which has been subjected to accident, alteration, or is from a machine on which the serial number has been removed or altered. Nor are normal service adjustments covered by this warranty.

Any defect during the warranty period shall be brought to the attention of a factory authorized service agency or the dealer from whom the equipment was purchased. He will be authorized to furnish or arrange for repairs or replacements within the terms of the warranty.

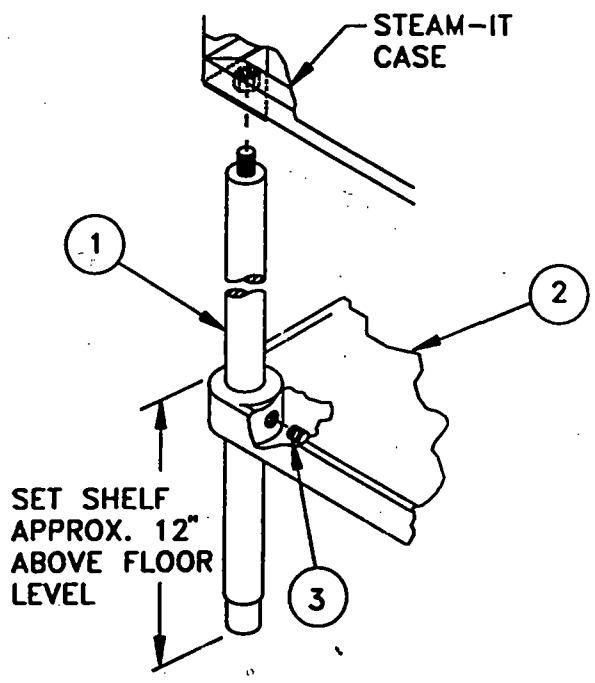
Market Forge Co.

35 Garvey Street, Everett, MA 02149
Tel. (617) 387-4100, Telex 94-9414,
Cable MAFORCO.

REV. DRAWING NO. 0909-56 A

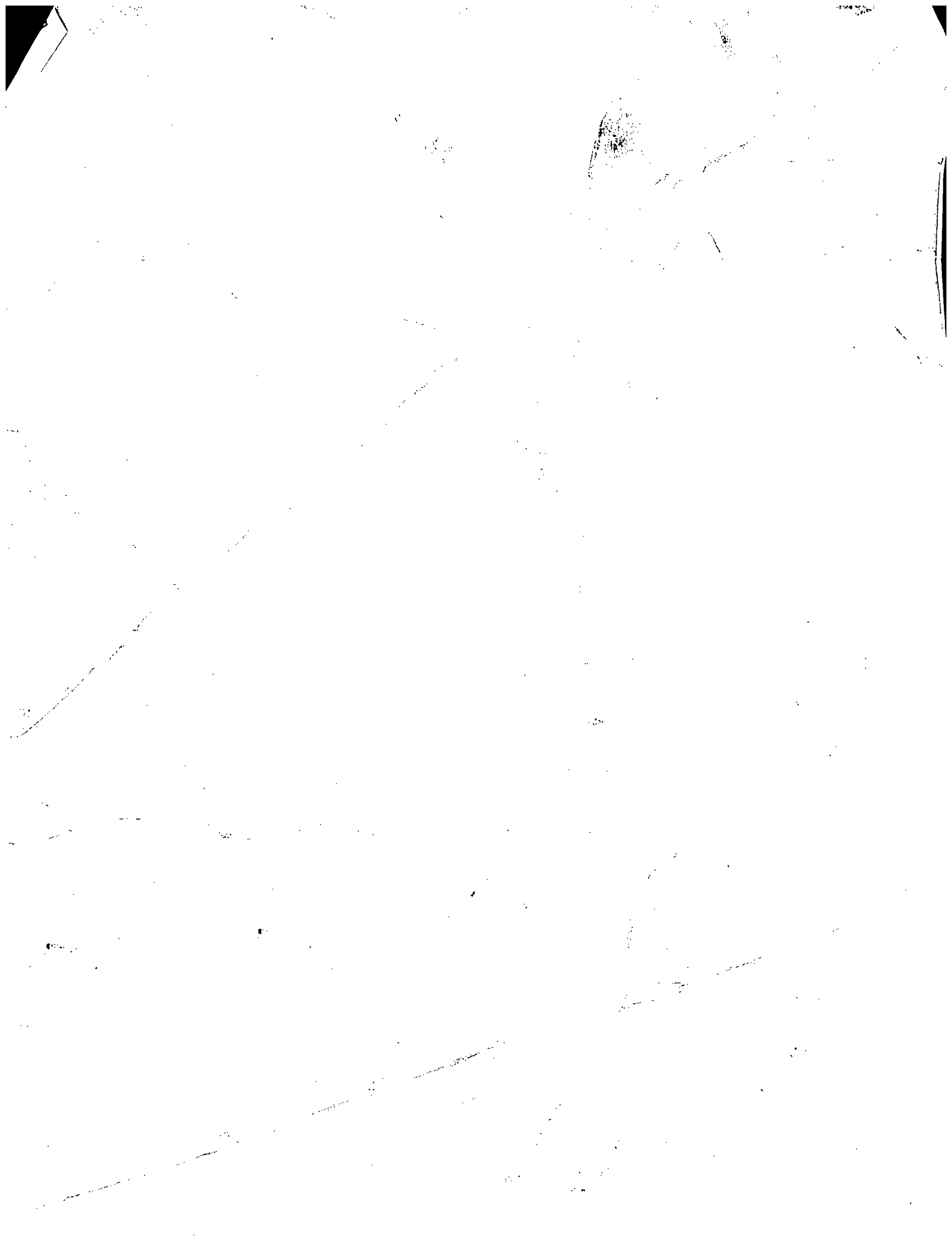
SYM	DATE	REV./EDM#	BY
A	6/4/93	RELEASED EDM 9723	C.S.

ITEM	PART NO.	DESCRIPTION	QTY
1	A95-2341	LEG, FLOOR, 27"	4
2	C95-6054	SHELF, STAND, STEAM-IT	1
3	08-3445	KIT, (4) SET SCREWS	1
4	10-4630	CARTON, PACKAGING	1



DE-BURRING - MARKET FORGE SPECIFICATION #127 CLASS 1 CLASS II CLASS III TOLERANCES UNLESS OTHERWISE SPECIFIED
 DECIMAL DIMENSIONS: .000 = ± .005 FRACTIONAL DIMENSIONS: ± 1/32 < DIMS. ± 1

USED ON	Market Forge Co.		EVERETT, MA. 02149	
C.R.L.	STAND, FLOOR, 1/2-13 NUT		ST-AG, ST-AS & ST-E	
DRAWN	CHECKED	ENG. APP.	DRAWING NO.	REV.
STOGBS			A 95-6060	A
DATE	SCALE	MFG. APP.		
JUN 4, 93	NONE			



E**STERILMATIC STERILIZER**

JOB NAME. _____

ITEM NO. _____

NO. REQUIRED _____

MODEL: STM-E, EX (Export Model)
STM-EL, ELX (Laboratory Model)

SIZE: 18¾" wide, 31" deep, and 27½" high
(476mm wide, 787mm deep, 702mm high)

DESCRIPTION: Will be a Market Forge® Model STM-E or STM-EL electric automatic steam pressure sterilizer. The Sterilmatic is dependable, inexpensive and ideally suited for hospitals, nursing homes, laboratories and clinics.

CYLINDER: Sterilizing cylinder will be 3/16" (4.8mm) wall welded aluminum with interior dimensions of 16" (406mm) in diameter and 26" (660mm) long with cubic content of 5,220 cubic inches (.085 cubic meters) and will have a door opening of 13½" (343mm) wide and 11" (279mm) high. Sterilizing compartment will have a capacity of three trays, 12" x 20" x 2½" (305mm x 508mm x 64mm); or two trays, 12" x 20" x 4" (305mm x 508mm x 102mm); or one tray, 12" x 20" x 6" (305mm x 508mm x 152mm). Exterior of sterilizer will be polished stainless steel.

DOOR: Sterilizer door will be self-sealing type which cannot be opened until steam pressure is completely exhausted. Door will be 12 gauge stainless steel, removable for cleaning without tools. Door gasket will be one-piece molded, replaceable without tools or cement.

OPERATION: Sterilizing cycle will be fully automatic, time-controlled, and have a built-in temperature control which provides 250°F (121°C). (Model STM-EL has the additional feature of an adjustable temperature control that can be set anywhere in the range 230°-250°F (110°-121°C). All operating controls will be located at front of autoclave. Pressure will be automatically and quickly exhausted and power supply shut off at termination of cycle. Slow exhaust may be selected for sterilizing liquids.

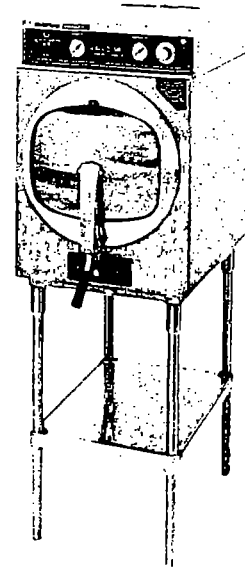
ELECTRICAL REQUIREMENTS:

Unit will be rated at 12KW at 236 volts and will be equipped for operation at:

- 208-240 VAC, 3 wire, 1 Phase, 60 Hz
- 208-240 VAC, 4 wire, 3 Phase, 60 Hz
- 220 VAC, 1 phase, 50 Hz
- 220 VAC, 3 Phase, 50 Hz

STANDARD EQUIPMENT WILL INCLUDE:

- Automatic temperature control
- Thermometer—180°-300°F (82°-149°C)
- Safety Valve
- 0-30 lb. steam gauge
- 0-60 minute timer



Model STM-E with optional stand

- Low water cut off
- Thermostatic steam trap
- Signal light
- Flat perforated steam baffle
- Removable pan supports
- Adjustable 4" to 6" (102mm to 152mm) bullet feet

OPTIONAL AT EXTRA COST:

- Sterilmatic Stand — Stainless steel stand and shelf with tubular legs. Height 27½" (699mm). Overall height of Sterilmatic with stand 56" (1422mm).
- Second shelf for above stand.
- Recording Thermometer — Provides a continuous record of sterilizing temperatures.
- Exhaust Condenser — For condensing exhaust steam when unit cannot be connected to outside vent.
- Sterilmatic Trays — Stainless steel, one-piece, round-cornered, perforated trays available as specified in the following sizes.
 - 12" x 20" x 2½" (305mm x 508mm) trays. (Unit will hold three trays this size)
 - 12" x 20" x 4" (305mm x 508mm x 102mm) trays. (Unit will hold two of this size or one with a 2½" tray)
 - 12" x 20" x 6" (305mm x 508mm x 152mm) trays. (Unit will hold one of this size as well as one 2½" tray)
- Sterilmatic Basket — Recommended for dressings. Available in the following sizes:
 - 12" x 20" x 2½" (305mm x 508mm x 64mm)
 - 12" x 20" x 4" (305mm x 508mm x 102mm)
- Mercury Relays

VWR
Part
58700-290

SPEC. NO. S-1561J 5/87

11 LABORATORY EQUIPMENT
Sterilizer

The manufacturer reserves the right to modify materials and specifications without notice.

Market Forge Industries Inc.

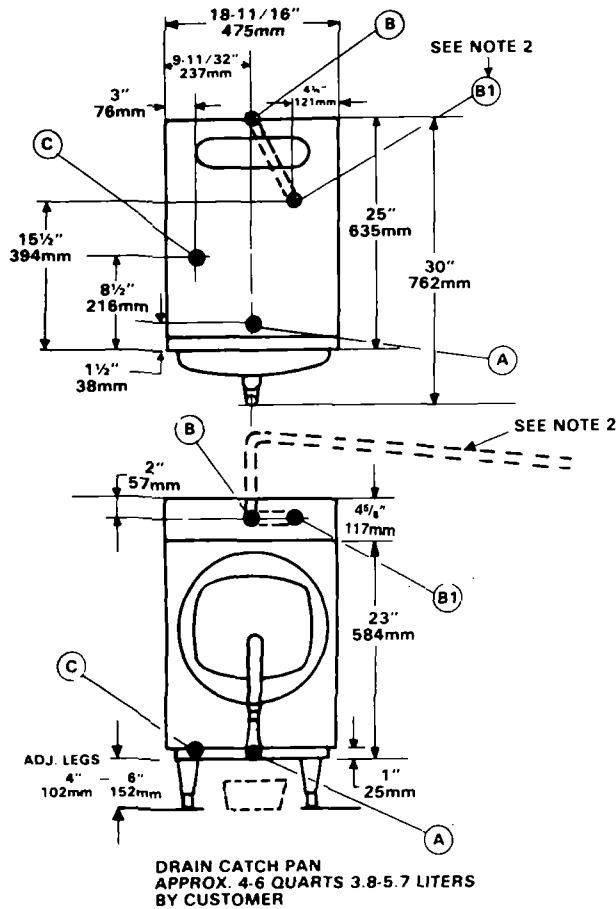
World Headquarters: 35 Garvey Street, Everett, MA 02149

Tel: 617-387-4100, Telex: 94-9414, Facsimile 617-387-4456 or 800-227-2659 (U.S., except MA)

DETAILS & DIMENSIONS

STERILMATIC STERILIZER

E



REQUIRED CONNECTIONS

A	Drain—1/2" (13mm) FPT or 3/8" (16mm) O.D. Copper (See note No. 1)			
B	Steam Exhaust Connection—3/8" (10mm) I.P.S. (See Note No. 2)			
C	Electrical Connection—(See Note No. 3)			
	Nominal amps per wire:			
	3 Phase	4 Wire	1 Phase	3 Wire
	208 V	240 V	208 V	240 V
	26	30	44	50
	208 V (197-219) or 240 V (220-240)			

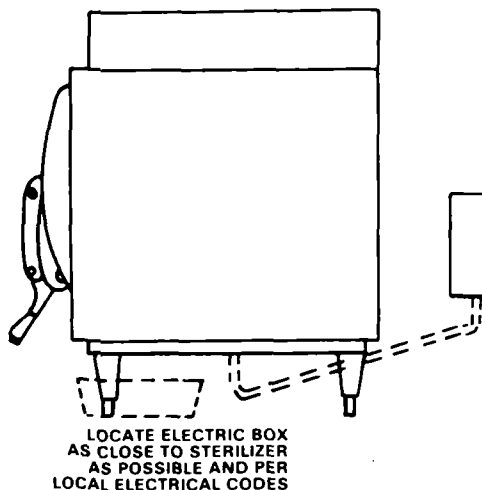
UNIT MUST BE GROUNDED

NOTES:

1. An air break must be provided if a unit drain line is run.
2. Vent exhaust to atmosphere (1/2 nominal line 15 feet (4.6 meters) long maximum with minimum of bends). B1 is actual connection, but must exit casing at B. Slope exhaust away from unit to avoid condensate re-entering.
3. The timer and exhaust solenoid valve are on 120V while the heaters run on 230V or 208V. Thus, if a neutral to the power circuit is not available, a separate 120V line must be run or a transformer provided where local codes prohibit separate electrical sources.

* When an exhaust condenser is supplied; the following services must be provided: 1/2" (13mm) I.P.S. cold water: 1" (25mm) I.P.S. waste.

* When a recording thermometer is supplied; mount recorder on a solid wall within 4 feet (1.2 meters) of sterilizer and make electrical connection to unit junction box of 120V, 1 Phase, 60 Cycle.



* It is our policy to build equipment which is design certified by A.G.A., U.L., A.S.M.E., N.S.F., C.G.A. and C.S.A. However, a continuing program of product improvement makes it necessary to submit new models to the agencies as they are developed and consequently not all models bear the appropriate agency labels at all times.

LABORATORY EQUIPMENT Sterilizer

11

S-1561J 5/87

SPEC. NO.

Market Forge Industries Inc.

World Headquarters: 35 Garvey Street, Everett, MA 02149

Tel: 617-387-4100, Telex: 94-9414, Facsimile 617-387-4456 or 800-227-2659 (U.S., except MA)

MARKET FORGE STERILMATIC STERILIZER MODEL STM-E TYPE C

PLEASE READ CAREFULLY IMPORTANT INSTRUCTIONS
FAILURE TO OBSERVE INSTRUCTIONS WILL VOID WARRANTY (SEE ITEM NO. 101)

TO OPERATE:

1. **IMPORTANT:** Make sure the drain valve is closed. Fill bottom of the sterilizer chamber with approximately six quarts of water or just below ledge at bottom of door opening. (If the water supply is known to be hard or corrosive, a source of treated water should be used. Do not use distilled water.)
2. **LOAD STERILIZER.** Use proper sterilizer loading procedures when placing materials in sterilizer chamber. All solid containers or instruments must be placed so that water or air will not be trapped in them.
 - a. Packs (linen, gloves, etc.)
Use wire basket to facilitate drying. Be sure condensate baffles are in place. Place packs on edge and arrange load in chamber so that only minimal resistance to passage of steam through the load will exist. **NOTE:** Place gloves in upper two thirds of chamber.
 - b. Jars, Canisters, etc.
Place containers on side to allow for displacement of air and complete contact of steam to surfaces. Drying is also facilitated.
 - c. Petri Dishes, Pipettes, Desiccators, etc.
should be inverted.
 - d. Utensils, Treatment Trays
Place on edges to facilitate drying.
 - e. Instrument Sets
Place instrument sets in trays having mesh or perforated bottoms. Place trays flat on shelves.
 - f. Combining Fabrics & Hard Goods
Place hard goods on lowest shelves. This prevents wetting of fabrics from condensate dripping from hard goods surfaces.
 - g. Plastic Utensils
DO NOT stack or nest plastic items.
 - h. Liquids
Sterilize medium liquids separately from other supplies or materials. Set exhaust selector to proper position (liquids).
 - i. Small items
Sterilize small items in baskets.

3. **CLOSE DOOR.** Grasp handle, and holding it in vertical position, pull door down until bottom of door rests in bottom of door opening. Then rotate handle forward, engaging the lower curved portion under the horizontal rod in the casting at the bottom of the door opening. Push handle all the way down and back until door is locked securely in position.
4. **SET EXHAUST SELECTOR.** located at center of control housing mounted on top of unit, to correct position. Unit is now ready to start. All items, other than solutions, may be sterilized with selector at "Instruments". Solutions require a slow exhaust. Place selector at "Liquids".
5. **DETERMINE CORRECT STERILIZATION TIME** by referring to Minimum Sterilization Time Chart. **NOTE:** In no case should the timer be set to less than 15 minutes. **STERILIZATION** will not be accomplished in less than 15 minutes exposure time.

MINIMUM STERILIZATION TIMES

Time	Articles
15 minutes	Glassware, empty, inverted Instruments, metal in covered or open tray, padded or unpadded Needles, unwrapped Pipettes, blood diluting, serological, volumetric, etc. Tubing glass 6mm, 10mm inverted.
20 minutes	Flasked solutions 75-250 ml. Instruments, metal combined with other materials in covered and/or padded tray. Instruments wrapped in double-thickness muslin. Rubber gloves, catheters, drains, tubing, etc., unwrapped or wrapped in muslin or paper.
30 minutes	Brushes in dispensers, in cans or individually wrapped. Dressings, wrapped in paper or muslin small packs only. Flasked solutions 500-1000 ml. Needles, Luer, individually packaged in glass tubes or paper. Syringes, unassembled, individually packaged in muslin or paper.
45 minutes	Flasked solutions 1500-2000 ml.

6. **TURN TIMER**, located at upper right front of sterilizer to the desired length of sterilizing period. This turns power supply on and starts cycles after pressure temperature combination has been reached. Amber pilot light indicates that the unit is ON.

7. When the sterilizer chamber reaches the selected temperature, the timed exposure cycle will begin. When the exposure cycle is completed, the electric supply will be turned off and the exhaust valve will be opened automatically. When the chamber pressure gauge located at the top of the control housing reads '0', the door may be opened. (Release handle and LET GO to avoid possible contact with remaining steam.) When opening the door, allow a few seconds for steam to escape from chamber before opening completely.

8. To assist in drying packs, release door handle after pressure has been attained at start of cycle. Pressure in chamber will keep door closed. The use of a wire basket will provide better drying for dressings. At end of sterilizing cycle, release door handle and open slightly. Do not lift door to open position. This will allow steam and moisture to escape. Allow door to remain in this position for 15 to 20 minutes before removing load. Small packs can be dried successfully with this procedure. We do not recommend the sterilization of large packs, such as linens. Be sure condensate baffles are in position in the chamber.

9. Remove load and check water level for next operation. (Electrically-operated unit only)

10. AT END OF DAY

a. Remove bottom splash baffle.

NOTE:

b. **IMPORTANT:** Sterilizing chamber must be cleaned and drained daily using the following procedure: wash wetted portion of the cylinder thoroughly by adding a mild detergent (such as Calgonite) to water in cylinder.

If a soft cloth or brush used with the detergent does not completely remove the surface film, a NYLON soap pad should be used. After washing a thorough rinse with clean soft water is imperative. Dry cylinder and leave door open overnight.

MAINTENANCE

The Sterimatic cylinder is constructed of a corrosion resistant alclad aluminum alloy. The protective properties of this material afforded to the interior portion of the cylinder which is exposed to water may be destroyed by allowing a film to form. Such a film can be caused by salts or other contaminants in the water. If the water supply is known to be hard or corrosive, a source of treated water should be used. Corrosion may also occur if water is not drained daily. Do not use distilled water.

NOTE:

Market Forge will not be responsible for damage resulting from the use of hard or corrosive water, from failure to drain the unit daily, or from inadequate cleaning procedures.

1. **PARTS REMOVAL AND CLEANING.** All parts inside the sterilizing chamber, including the door, are removable for cleaning without the use of tools. To clean, open door and remove shelves, trays and/or baskets. Remove tray supports. Tray supports are mounted on key-hole slots. The door may be removed by releasing the door spring on each side of the sterilizing chamber from its support. Unhook the door lifting spring and then turn the door inside the sterilizing chamber and pull it through the door opening. Replace baffles per form H-1718 STM E.

2. **GASKET REPLACEMENT.** The door gasket is easily replaced by following the above procedure to remove the door. The old gasket is easily removed and a new gasket can be snapped in place quickly and easily. Replacement gaskets are available from the Market Forge Company or our authorized service agencies.

Market Forge

Everett, Massachusetts 02149