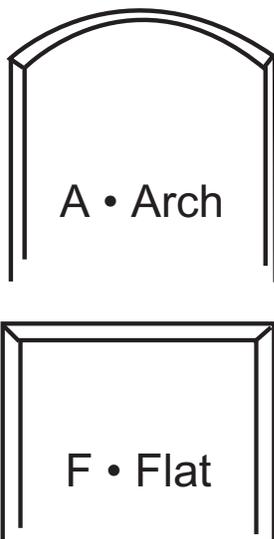


## SS476 MP CABINET INSTRUCTIONS

### General Notes

- Unpack the cabinet. Check the box thoroughly for all hardware and loose parts as follows:
  - Cabinet
  - Hardware Bag
  - Shelving
  - "Z" Bracket
  - Swing Out Magnifying Mirror (or mail in card for SOMM)
- Remove the doors from the cabinet and store the doors in the cabinet box. Be sure edges of the doors are protected. Removing the doors allow for easy and fast installation of the cabinet system.
- A square and plumb installation insures proper door operation. A square and level are necessary for proper installation.
- Improper installation voids the warranty. Installed cabinets cannot be returned.
- If you experience any problems with your cabinet, contact your dealer or Robern directly.  
**Robern • 701 N. Wilson Ave • Bristol, PA 19007**

Limited Warranty One Year Term on page 8



### Part List – MP Cabinet

- MP Cabinet  
Refer to model number designations below \_\_\_\_\_ to determine if cabinet was ordered.
- Glass Shelves
  - 4 Shelves are provided with each cabinet
  - 3 Shelves are provided with each "E" option cabinet
- "Z" Mounting Brackets
  - Bracket used for surface mounted cabinets.
- Hardware Bag • Contains the Following
  - 12 Clear Snap-In Shelf Clips \_\_\_\_\_
  - 46 Shelf Hole Plugs \_\_\_\_\_
  - 6 SMS/WOOD Screws #10 X 2" \_\_\_\_\_
  - 5 SMS/Wood Screws #10 X 3" \_\_\_\_\_
  - 8 Connector Block Screws #10 X 1/2" \_\_\_\_\_
  - 2 MP65 Connector Blocks \_\_\_\_\_
  - 15 Black Screw Head Caps \_\_\_\_\_
  - 3 Top Mount "Z" Clip \_\_\_\_\_
  - 6 Plastic Anchors \_\_\_\_\_

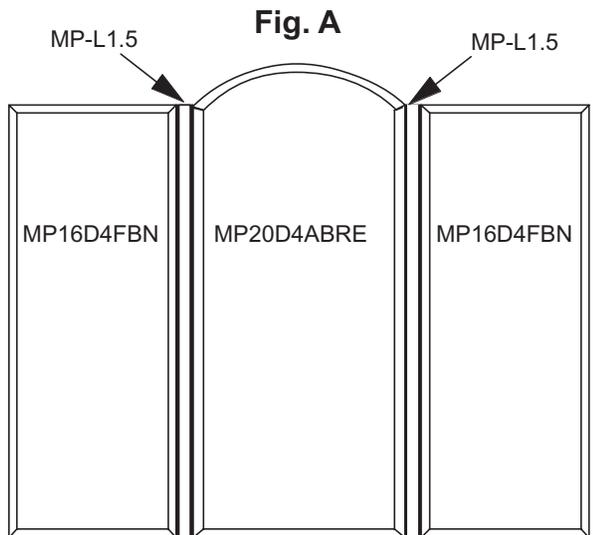
### MODEL NUMBER DESIGNATIONS

| Product Type         | Mirror Shape               | Mirror Edge | Hand            | Options               |
|----------------------|----------------------------|-------------|-----------------|-----------------------|
| CABINETS 4"D 6"D 8"D |                            |             |                 |                       |
| MP16 (D4) D6 D8      | A • Arch                   | B • Bevel   | N • L or R Hand | E • Electric          |
| MP20 (D4) D6 D8      | F • Flat                   | P • Plain   | L • Left Hand   |                       |
| MP24 (D4) D6 D8      |                            |             | R • Right Hand  |                       |
| LIGHTS               | See note below for MP-L3.5 |             |                 |                       |
| MP-L1.5 or MP-L3.5   |                            |             |                 |                       |
| SIDEKIT              |                            |             |                 | D8 - 8" Deep          |
| MPSK40               |                            | B • Bevel   |                 | D6 - 6" Deep          |
|                      |                            | P • Plain   |                 | D8SR - 8" Semi Rec 4" |
|                      |                            |             |                 | D6SR - 6" Semi Rec 4" |

PLEASE NOTE: The MP-L3.5 light fixture requires special consideration concerning overall dimensions and brackets. Refer to instructions supplied with the fixture.

# Dimensions of Cabinets and Lights

- Mirror Plus® is a modular system allowing you to install cabinets and lights in different combinations. Overall size of the cabinet is determined by the overall dimensions of the assembled units. A chart for figuring overall size and rough openings for recessed installations is shown at the right.
- An example is shown in figure a of a three door / two light combination.



## Single units

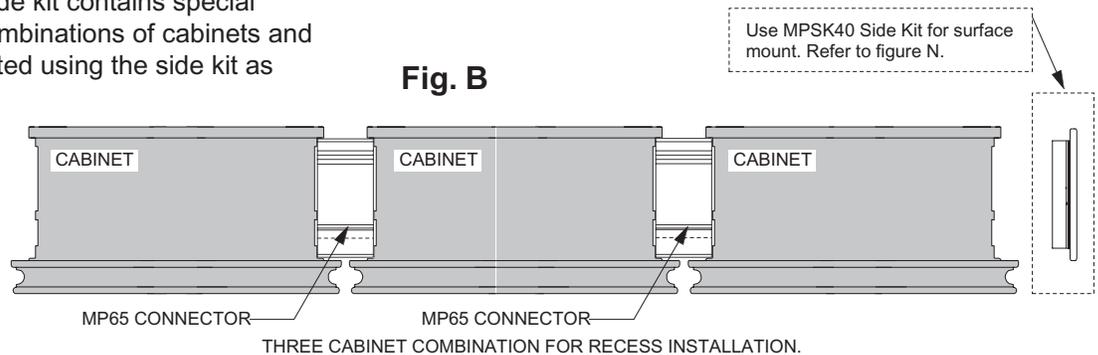
| Product Model       | Width          | Number of Units | Unit Width | Unit Height    |
|---------------------|----------------|-----------------|------------|----------------|
| CABINET MP16        | 15 1/4"        |                 |            | XXXXXXXXXX     |
| CABINET MP20        | 19 1/4"        |                 |            | XXXXXXXXXX     |
| CABINET MP24        | 23 1/4"        |                 |            | XXXXXXXXXX     |
| LIGHT MP-L1.5       | 1 1/2"         |                 |            | XXXXXXXXXX     |
| <b>TOTAL WIDTH</b>  | <b>OVERALL</b> | XXXXXXXXXX      |            | XXXXXXXXXX     |
| ROUGH               | OPENING        | XXXXXXXXXX      | -3/4"      | XXXXXXXXXX     |
| <b>TOTAL ROUGH</b>  | <b>OPENING</b> | XXXXXXXXXX      |            | XXXXXXXXXX     |
| <b>TOTAL HEIGHT</b> | <b>OVERALL</b> | FLAT TOP        | XXXXXXXXXX | <b>39 3/8"</b> |
|                     |                | ARCH            | XXXXXXXXXX | <b>43 3/8"</b> |
| <b>TOTAL HEIGHT</b> | <b>R.O.</b>    | ALL SHAPES      | XXXXXXXXXX | <b>38 5/8"</b> |

## Multiple Units

| Product Model       | Width          | Number of Units | Unit Width | Unit Height    |
|---------------------|----------------|-----------------|------------|----------------|
| CABINET MP16        | 15 1/4"        | 2               | 30 1/2"    | XXXXXXXXXX     |
| CABINET MP20        | 19 1/4"        | 1               | 19 1/4"    | XXXXXXXXXX     |
| CABINET MP24        | 23 1/4"        |                 |            | XXXXXXXXXX     |
| LIGHT MP-L1.5       | 1 1/2"         | 2               |            | XXXXXXXXXX     |
| <b>TOTAL WIDTH</b>  | <b>OVERALL</b> | XXXXXXXXXX      | 52 3/4"    | XXXXXXXXXX     |
| ROUGH               | OPENING        | XXXXXXXXXX      | -3/4"      | XXXXXXXXXX     |
| <b>TOTAL ROUGH</b>  | <b>OPENING</b> | XXXXXXXXXX      | 52"        | XXXXXXXXXX     |
| <b>TOTAL HEIGHT</b> | <b>OVERALL</b> | FLAT TOP        | XXXXXXXXXX | <b>39 3/8"</b> |
|                     |                | ARCH            | XXXXXXXXXX | <b>43 3/8"</b> |
| <b>TOTAL HEIGHT</b> | <b>R.O.</b>    | ALL SHAPES      | XXXXXXXXXX | <b>38 5/8"</b> |

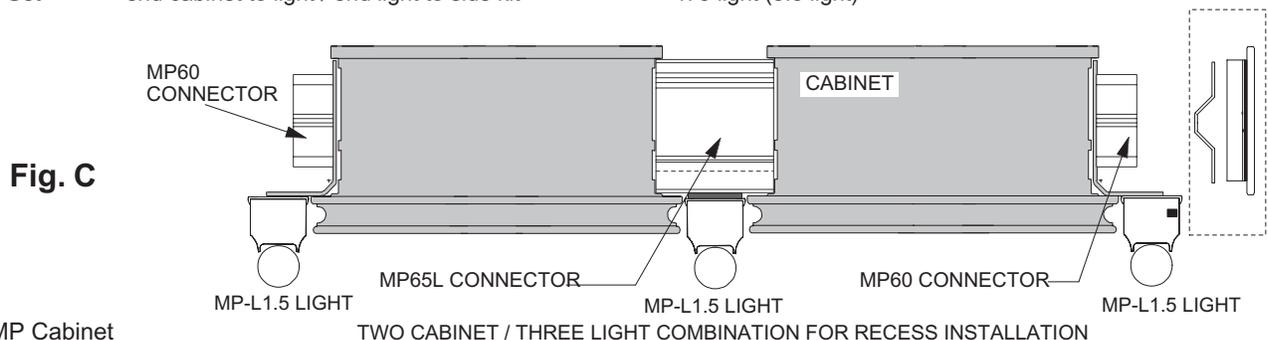
## Assembly of Cabinets and Lights

- Each cabinet, light and side kit contains special connectors to allow all combinations of cabinets and lights, both surface mounted using the side kit as well as recessed into the wall. A plan view noting these connector combinations are shown in the examples below (figures B & C).



## The connectors are shipped with the products noted below:

| Connector   | Joins  | Shipped with          |
|-------------|--|-----------------------|
| MP65        | cabinet to cabinet                           | cabinet               |
| MP65L (HL)  | cabinet to cabinet with light between        | 1.5 light (3.5 light) |
| MP60(H) Set | end cabinet to light / end light to side kit | 1.5 light (3.5 light) |



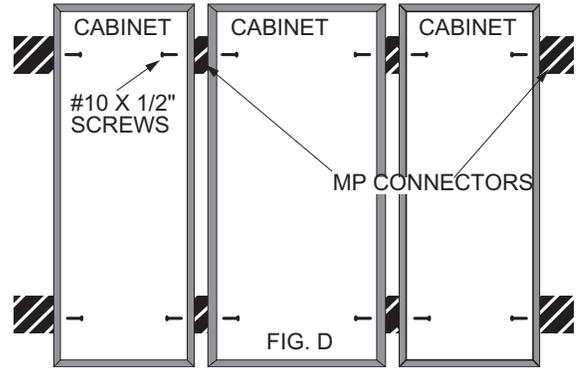
- With the doors off, combine the boxes with the proper connectors to assemble the units per your layout. Use the #10 x 1/2" thread cut screws.

Assemble on a convenient flat surface, not on or in wall.

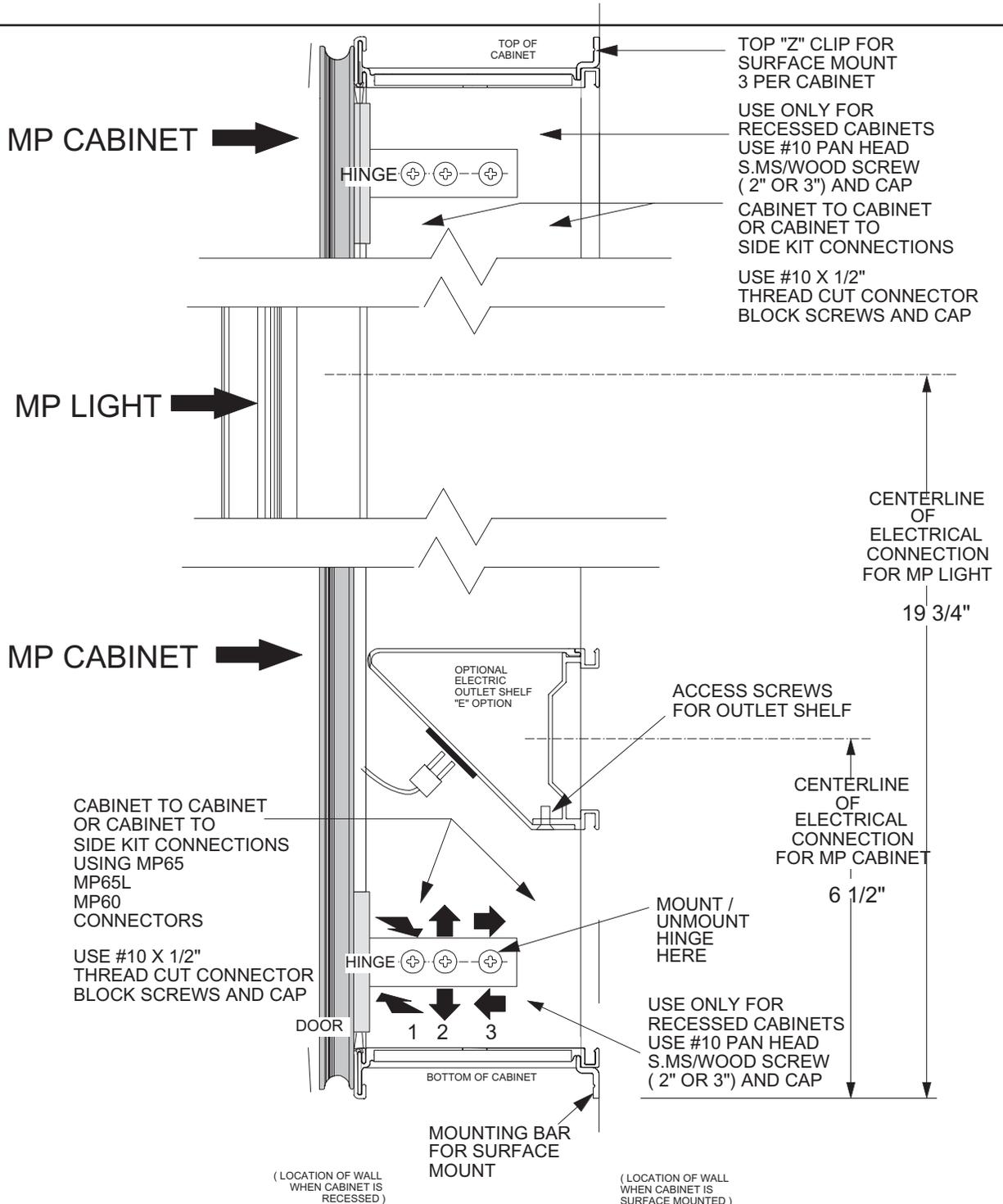
Do not attach lights, doors or side kits until boxes are secured to wall.

Note location of holes in the cabinets which are used to secure connectors and side kits in figure E.

**Fig. D**



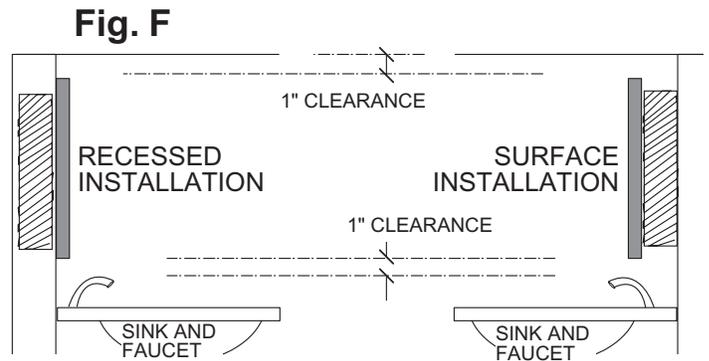
**Fig. E**



# 1. Selecting Location Surface or Recess

Carefully select the cabinet location, keeping in mind the following:

- A. Clearance from the faucet must be determined.
- B. Make sure electrical power can be provided. Power to the cabinet should be separate from the light fixtures which should be switched at a suitable location.
- C. When recessing be sure clearance is provided above the rough opening for the top of the door.



# 2. Electrical Hook Up and Specifications

MP cabinet with “E” option • Use a 120 VAC 20 amp circuit. Up to 4 cabinets can be wired to the circuit.

Includes two convenient outlets plus a 75 watt door heater. The door included with this option is equipped with a disconnect cord. The door swings left or right.

MP lights • Use a 120 VAC 15 amp circuit up to 4 lights per circuit.

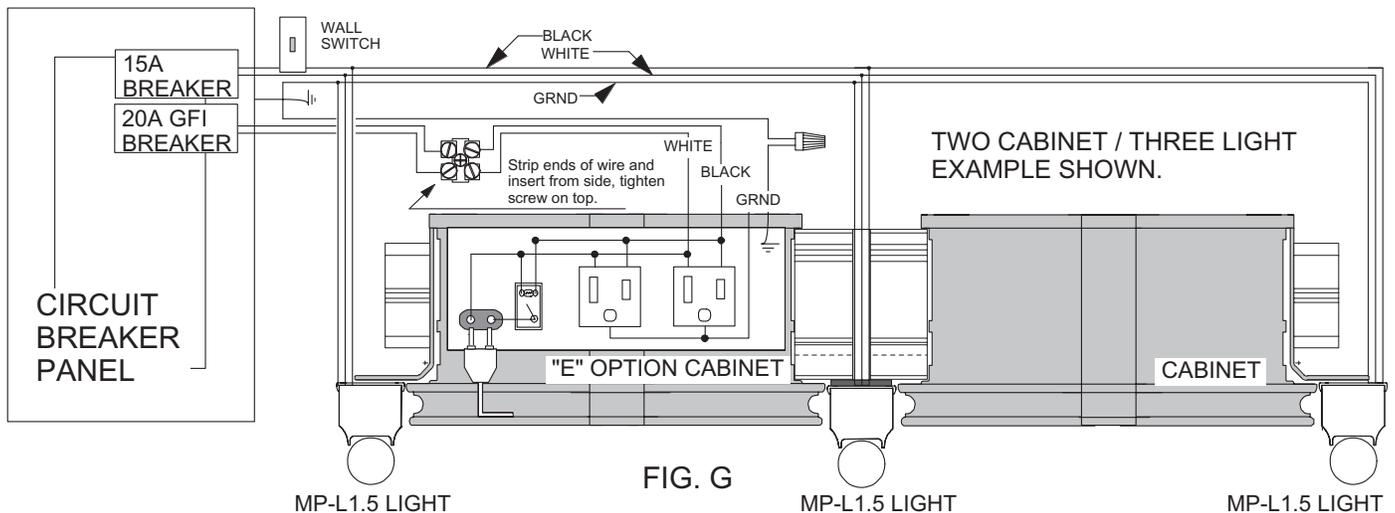
The MP-1.5 light fixtures use either a 150 watt tubular incandescent bulb (MPIL1.5) sold under the trade-names “Philinea” by Philips and “Linestra” by Osram or 25 watt T-8 fluorescent tubes (MPFL1.5)

The MP-L3.5 mirrored sconces use a either incandescent, fluorescent or halogen light sources. Refer to the instruction sheets supplied with these light fixtures.

## WARNING

“E” option cabinet must be wired to a 20 amp GFI circuit breaker (ground fault interrupter) when used in bathrooms and all other locations required by the National Electric Code

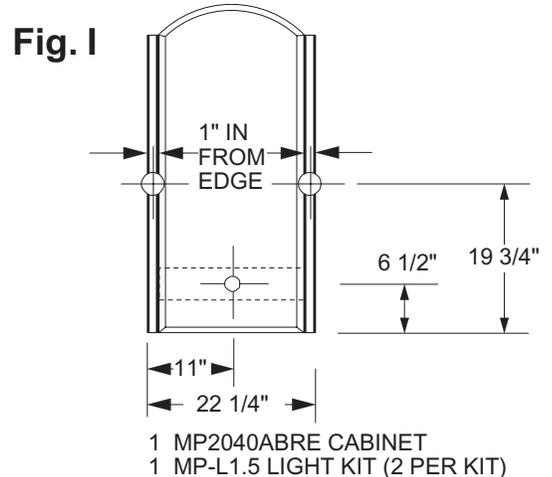
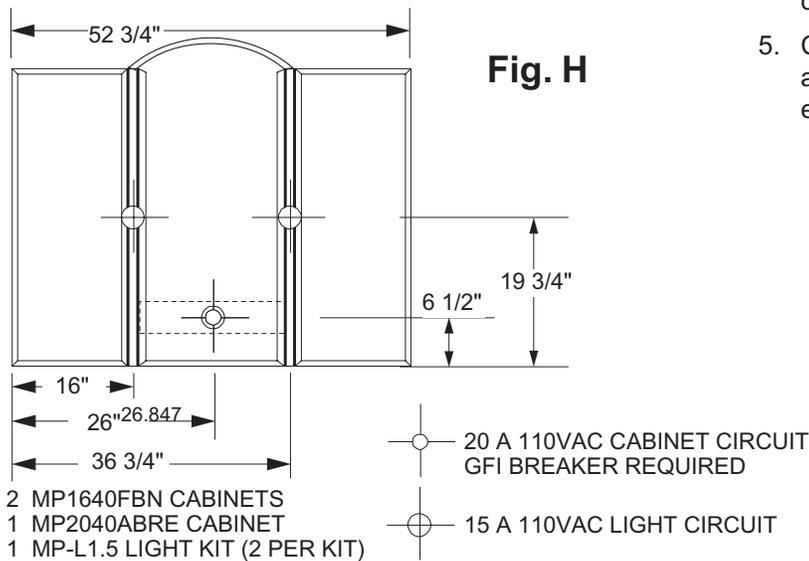
Wiring diagram for lights refers to MPIL1.5 only. See instructions with MPFL1.5 for wiring instructions. The MPFL1.5 requires a special cable.



### 3. Installing connected cabinet boxes

1. Be sure all cabinet boxes have the proper connector to accept lights at the ends or between cabinets.  
Do not install lights, doors, or side kits until boxes are installed.
2. Be sure wire for lights is in position and can reach past the front of the cabinet by 6" so that connections can be made.

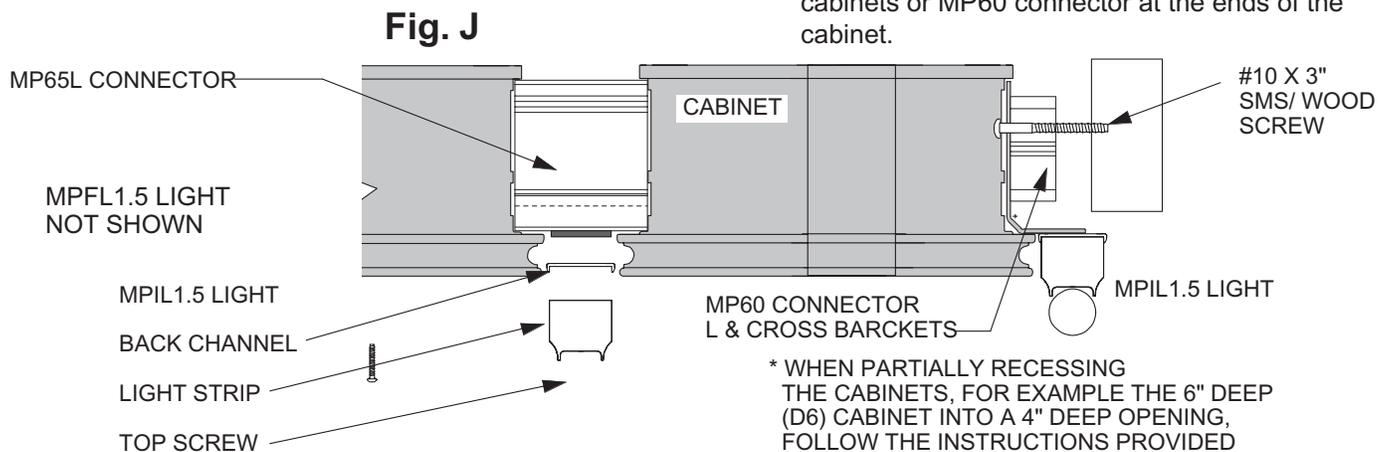
3. For cabinets with the "E" option remove the two screws on the bottom of the outlet shelf. Attach a suitable cable clamp in the back panel. The wire for this cabinet should extend through the cabinet 6" so that the connections can be made.
4. The cabinet combination in figure A, is shown in figure H below, noting locations of electrical connections.
5. Connection locations for other combinations of lights and cabinets will vary. When lights are located on the ends, dimensions are as shown in figure I.



### 4. Recessed Cabinet and Light Installation (see page 6 for surface inst.)

1. The rough opening must be at least 4" deep (6" deep for D6 cabinets & 8" deep for D8 cabinets when fully recessed\*) and must be framed on all 4 sides. Important!
2. Place the connected boxes into the rough opening. Be sure the bottom is level. Install a #10 X 3" pan head screw through the top hole shown in figure E on page 3.
3. Be sure cabinet is square. Install bottom screws. Do not over tighten screws.
4. Place grey caps over screw heads.

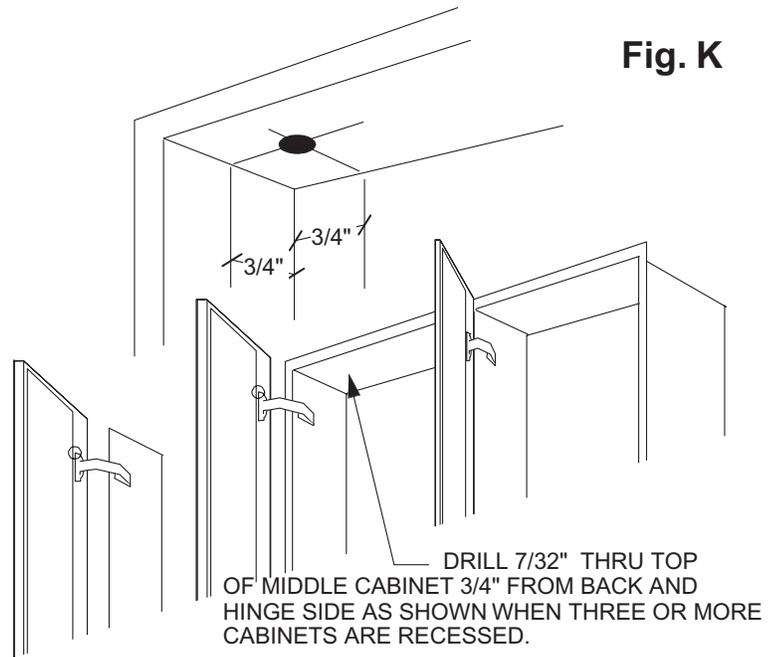
5. Wire the "E" option cabinet by making wire connections inside the outlet shelf cover.
6. For MPIL1.5: Open light by removing the two screws on Top. Place a wire clamp on the back channel, connect To the leads and ground provided. Snap the back channel to the light strip, replace the two top screws.  
For MPFL1.5: This fixture requires a 4 wire cable between each fixture. One fixture is the master, the other a remote. The master contains the transformer.
7. Fasten fixture at the MP65L connector between the cabinets or MP60 connector at the ends of the cabinet.



\* WHEN PARTIALLY RECESSING THE CABINETS, FOR EXAMPLE THE 6" DEEP (D6) CABINET INTO A 4" DEEP OPENING, FOLLOW THE INSTRUCTIONS PROVIDED WITH THE MPSK40-D2 OR -D4 SIDE KIT

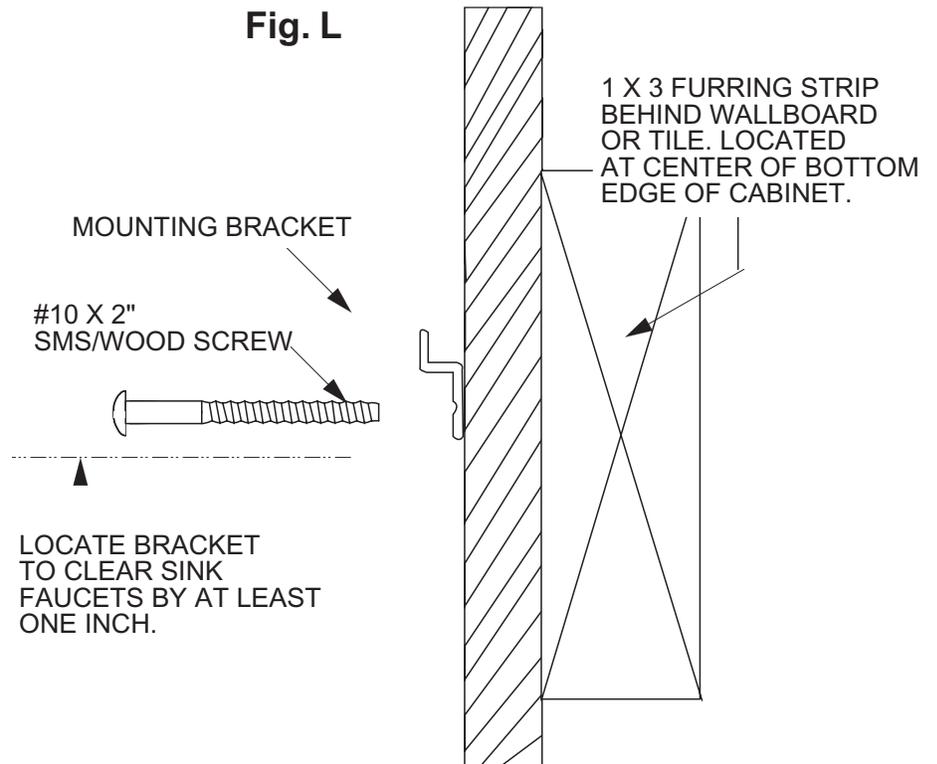
## Recessed Cabinet and Light Installation Continued

8. Install doors following the instructions supplied with the hinge and shown in Figure E on page 3.
9. Adjust doors so that there is a gap of 1/8" between doors. This is very important.
10. Plug the cord for the "E" option door into the outlet shelf.
11. Install shelf clips. These clips are designed for a tight fit. A slight twisting motion may be necessary. Install shelves as shown on page 8
12. Check for proper operation of lights, and heater. Refer to checklist section for help.
13. Open and close doors to check operation. On installations of the larger cabinet in combinations of 3 or more, the center door when open may cause the cabinet to bow from the wall. If this occurs install a #10 x 2" or 3" SMS/wood screw and cap through a hole drilled at the location shown on in figure K.



## 5. Surface Mount Cabinet and Light Installation (See page 3 for Recessed Instructions.)

1. Each cabinet is shipped with an aluminum "Z" mounting bar. Cut this bar approximately 1" shorter than the overall width of your cabinet/light combination. If your combination is larger than 45" mount more than one piece to the wall.
2. It is strongly recommended that a support similar to that used for a wall mounted sink be framed in the wall during construction as shown in figure L. A completed three door unit is 150 lbs empty.
3. Drill a 7/32" hole through the indent line on the mounting bracket (See figure L.) at the stud or furring strip location. Use the plastic anchors supplied if no furring strip has been installed, making sure each cabinet is supported by at least three anchors. A three cabinet installation should have 9 anchors in the mounting bracket. Follow the Poly-set Anchor instructions on page 7 for anchors supplied. Be sure mounting bar is level.

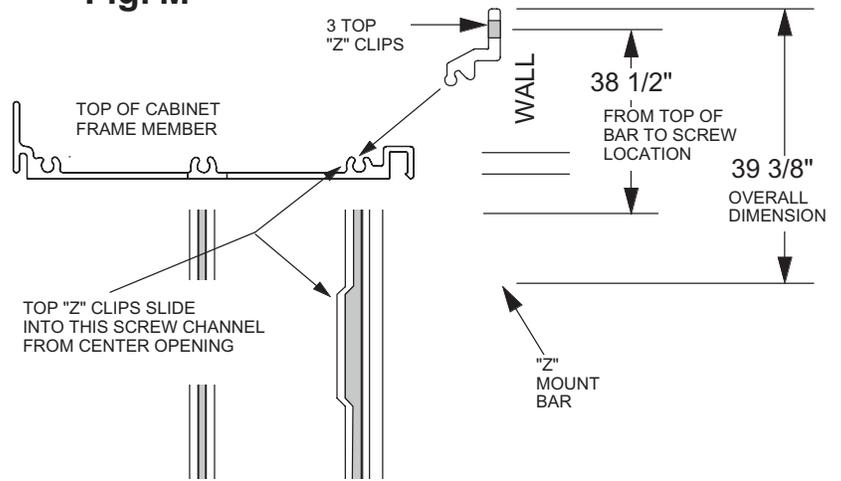


(Continued on page 7.)

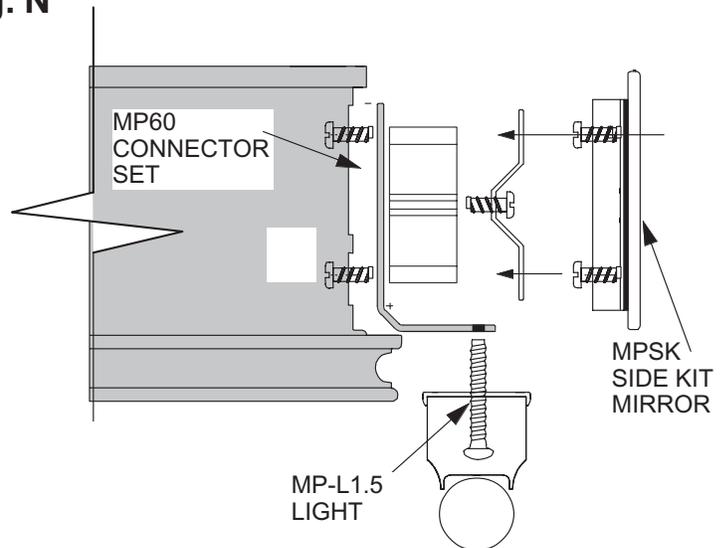
# Surface Mount Cabinet and Light Installation Continued

4. Three "Z" clips are supplied for the top of each cabinet. These clips slide into the screw channel on the top of the cabinet. Holes for the clips can be pre-drilled per dimensions shown in figure M.
5. Mount the connected boxes into the bottom bracket. Tighten top clips. If end lights are used on the end locations, it is necessary to install sequence as shown in figure M.
6. The MTSK30 side kit is used to finish the sides of the surface mount installation.
  - 6a. Attach keyhole bracket to "cross" bracket using #10 x 1/2" screws. Be sure that the keyhole is up as shown on page 8.
  - 6b. Attach "I" bracket to cabinet side using #10 X 1/2" screws into "cross" bracket.
  - 6c. Attach light fixture.
  - 6d. Screw two #10 x 1/2" screws into each bracket on SK mirror. Leave enough room under head for a penny to slide.
  - 6e. Hang on keyholes. Adjust screws if required for snug fit.
7. Follow the instructions 5 through 12 for recessed installation on page 5 & 6.

**Fig. M**



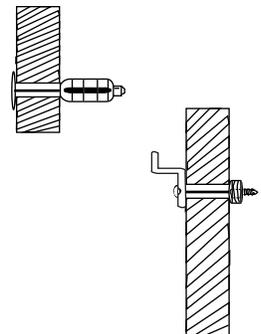
**Fig. N**



## Poly-set Anchor Instructions for Hollow Walls

1. Drill 9/32" hole and insert anchor until flange is flush.
2. Insert #10 X 2" SMS/wood screw through bracket and anchor. Continue to turn screw to fully expand the anchor according to the chart below.

| Total Wall Thickness | Turns after screw head is against bracket |
|----------------------|---|
| 1/2"                 | 8-9 Turns                                 |
| 5/8"                 | 6-7 Turns                                 |
| 3/4"                 | 4-5 Turns                                 |



# CHECKLIST • Care & Maintenance

## 1. Doors

- A. The doors are provided with a three way adjustment feature. Height, level and fit to frame gasket can be adjusted. The use of a #2 posidrive screwdriver is recommended.

If door is out of level or too close to one side adjust door left or right with screw 1 shown on page 3 figure E.

If door is too high or low adjust door down or up with screw 2 shown on page 3 Figure E.

If door opens stiffly, squeaks or rubs against gasket, adjust door outwards with screw 3 shown on page 3 figure E.

- B. Check the swing of the door. The hinges are provided with a 110° black plastic stop so that they will not swing into the light bulb. If no bulb is in the way of the door this stop can be removed so that the door can swing 170°. Be sure to follow #12 under recess installation.
- C. For "E" option doors. Activate the door heater from switch on outlet shelf. Within 3 minutes the center portion of the door will get warm.  
The center area of the mirror (approximately 2

square feet) will provide fog-free viewing. If the de-mister does not function check wiring to the outlet shelf. Do not attempt to repair the door. There are no field serviceable parts. Contact the factory or your dealer.

## 2. Lights

- A. Please note: the MPIL1.5 Light fixture contains a Safety Disconnect switch which deactivates the sockets when no bulb is installed. Be sure the bulb is seated firmly in the sockets. The MPFL1.5 Fluorescent light can exhibit flickering when the improper dimmer, loose wire, or loose bulb is present.

## 3. Cleaning

- A. The cabinet door and interior are constructed of mirror and anodized aluminum. Use only a damp cloth to clean. Mirrors are damaged by the use of ammonia or vinegar based cleaning agents. Use rubbing alcohol for stubborn marks
- B. Use no abrasive cleansers on any part of the cabinet.

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## Limited Warranty One Year Term

ROBERN warrants to the original purchaser that, it will, at its election repair, replace, or make appropriate adjustment to products made by this company shown to have significant defects in material or workmanship which are reported to ROBERN in writing within one (1) year from the date of delivery. ROBERN is not responsible for installation costs.

The warranty is void in the event the product is damaged in transit, or if damage or failure is caused by abuse, misuse, abnormal usage, faulty installation, damage in an accident, improper maintenance, or any repairs other than those authorized by ROBERN. At the expiration of the one year warranty period, ROBERN shall be under no further obligation under any warranty, expressed or implied, including the implied warranty of merchantability.

ROBERN shall not be liable for any consequential damages arising out of or in connection with the use or performance of its products. Some states do not

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Any liability against ROBERN under any implied warranty, including the warranty of merchantability, is expressly limited to the terms of this warranty. Permission to return any merchandise under this warranty must be authorized by ROBERN and returned prepaid by the purchaser. Claims under this warranty should be sent directly to your dealer.

THE FOLLOWING PATENTS APPLY TO  
THIS PRODUCT:  
U.S. PAT. NO. 5,164,861  
U.S. PAT. NO. 5,350,227  
U.S. PAT. NO. 5,355,627

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