COUNTER INTELLIGENCE BEVERAGE SYSTEM

CI6160 and CI9010

Service Manual

SERVICE MANUAL

The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

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CI6160 AND CI9010

IMPORTANT: *To the user - This manual is a guide for installing, operating and maintaining this equipment. Please read and maintain this document for service and trouble shooting.*

GENERAL DESCRIPTION

The *COUNTER INTELLIGENCE CI6160* and *CI9010 BEVERAGE SYSTEMS* consists of five sub-modules in an integrated package:

The *CI6160* consists of:		The *CI9010* consists of:	
Model CF682	Wilshire Beverage Dispenser	Model CF682	Wilshire Beverage Dispenser
Model CF682	Wilshire Beverage Dispenser	Model CF484	Wilshire Beverage Dispenser
Model M15	SerVend Ice Dispenser	Model M15	SerVend Ice Dispenser
Model MER52	Merchandiser	Model MER52	Merchandiser
Installation Kit	Side Panels, Drain Pan Skirt, etc.	Installation Kit	Side Panels, Drain Pan, Skirt, etc.

SPECIFICATIONS

See individual manuals for specifications.

UNPACKING AND INSPECTION

The units, packed individually, were thoroughly inspected before leaving the factory. Any damage should be noted at the time of delivery (no later than 15 days from date of delivery) and immediately reported to the carrier. File the claim with the delivering carrier.

INSTALLATION REQUIREMENTS

Counter　　　A flat surface able to support approximately 700 pounds. Counter cut outs for product lines, drainage lines, and electrical cords. See template provided with installation kit for dimensions and locations.

Clearance above the *CI6160* or *CI9010* must be a minimum of 15" to allow removal of the upper cabinet for servicing the power deck, filling the ice bin, as well as providing adequate ventilation. There should be a minimum of 4 inches clearance on each side and rear of the unit. FAILURE TO COMPLY MAY RESTRICT AIR MOVEMENT SUFFICIENTLY TO IMPAIR REFRIGERATION PERFORMANCE.

Seal　　　A silastic caulk approved for use in a food zone (Dow Corning 732 or equivalent) is required to seal equipment to the counter top.

Electrical　　　Use separate 120VAC 20 amp 60HZ grounded duplex outlets to accommodate each module and/or accessories. The outlets should be located below the counter and within three (3) feet of the unit and installed according to national and local electrical codes.

Drain　　　An approved three (3) inch or larger drain must be located within three (3) feet of the dispenser. The preferred drain is an open floor sink with a center cone. Do not use copper for soft drink drains.

Water　　　Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed, and maintained according to federal, state, and local laws. A minimum of 3/8"ID tubing is required to dispenser.

An optional carbonator is required.

Noncarbonated drinks require a minimum incoming water pressure of 40 psi and a maximum of 75 psi. An optional booster pump is required if pressure is not maintained at or above 40 psi. If over 75 psi, install water regulator.

Use water filters to eliminate undesirable elements in the water, such as chlorine in excess of 1.5 ppm. Use a type that does not remove all chlorine.

CO_2 System

The CO_2 tank must be located next to a solid wall and chained.

The CO_2 storage area must be open and vented.

On bulk CO_2 tanks ensure vaporizing and regulator capacity is sufficient (i.e., 8-9 scfm average per dispenser and carbonator).

Set CO_2 regulators as appropriate:
  Room temp. carbonators - 105 psi for all valves with minimum flow rate of 1.5oz/sec
  Cold carbonator - 90 psi

If CO_2 is to be located under the counter, 30 inches under counter clearance is required.

Syrup System

Allow no more than two (2) Fast Flow Valves per Bag-In-Box (BIB) pump or Figal.

Up to 4 BIB's can be connected together, whether a selector (automatic switch-over device) is used or not, as long as all bags are at the same level, not above or below each other.

Because of pressure drop within figal fittings, no more than two (2) Figals should be connected in series.

INSTALLATION INSTRUCTIONS

The installation process described below should be performed in the sequence as presented:

Dispenser Module Assembly

1. Remove packing and crating material from each module. Save the packing material in case items need to be returned. Remove protective covering as each part is assembled.
2. Prior to locating the three individual units side by side, remove the shipping screws from both sides of each beverage dispenser as marked on the equipment.
3. Using the template provided with the installation kit, mark the counter to indicate the location of the modules.
4. Cut the access holes and slots as indicated.
5. Apply a generous bead of silastic to the counter top where each module will contact the counter and around the cutout for the ice dispenser drain. **NOTE**: All openings cut into the counter top must be sealed with an acceptable material in accordance with local and state health and building codes.
6. Set the *CF682* beverage dispenser on the counter in the left most position, making sure the cabinet is set on the silastic seal.
7. Set the *CF682* or *CF484* beverage dispenser on the counter in the right most position, making sure the cabinet is set on the silastic seal.
8. Set the *M15* ice dispenser on the counter top in the center position, making sure that the cabinet is placed on the silastic seal. Gently slide it to the rear engaging the dowel pins on the back panels of the beverage units (two pins on each beverage unit as shown in Figure 1). The 3" (76 mm) wide slot in the bottom of the ice dispenser should align with the corresponding hole in the counter top.
9. Pull the three modules together at the front by using the merchandiser support bracket assemblies, lower bracket, and trim strip, shipped in the Installation Kit. Fasten the merchandiser support brackets and lower bracket to the beverage dispensers at the adjoining parting line of the ice dispenser with #10-32 screws found in the kit. Compress the formed merchandiser support rods and place them into the pivot holes found on the merchandiser brackets. Pulling the units together, drop the trim strip onto the protruding merchandiser support tips at the top, engaging the holes in

the trim strip. Lock the trim strip into place by forcing the stud receiver clips onto the merchandiser support tips, pushing them down to the trim strip.

10. Connect all product lines carbonated water lines, potable water lines, and drain lines as marked.

11. Remove the lower cover plate and the upper plastic cover on the face of the ice dispenser to gain access to the drain connections.

12. Temporarily set the drain pan support frame and drain pan in position at the front of the counter.

13. Install the drain tube assembly in position beneath the ice dispenser. The 3/4" plastic tee fitting, supplied with the Installation Kit, is to be connected to the ice dispenser drain and drip pan drain, utilizing proper length drain hose cut from the 3/4" ID black rubber hose included in the Installation Kit. Cut the remaining hose to connect the tee end to the field drain. Check all connections for leaks.

14. Apply silastic to the counter top to seal the drain pan support frame and install it on the front of the beverage dispensers using 10-32 screws through the back of the frame into the angle framework of the dispensers.

15. Complete sealing all the modules to the counter top by wiping the excess silastic off the counter and leave a smooth joint between the counter and modules.

16. Install the drain pan. Connect the drain fitting with the rubber hoses, using hose clamps provided on the non-barbed drains.

17. Bend each of the beverage units overflow lines out so that they drain into the drain pan.

18. The *MER52* is a lighted sign and is shipped partially assembled:

    A. Place gasket strips on both the right- and left-hand beverage dispensers (see Figure 2);

    B. Remove two screws from *MER52*;

    C. Remove top cover and plastic lens;

    D. Remove fluorescent lamps packed inside *MER52*;

    E. Install the *MER52* merchandiser by mating the slip hinges at the top of the merchandiser and dispensers;

    F. Rotate the *MER52* upward and rest it on the two shelf supports mounted on the front channel assembly;

    G. Plug the *MER52* cord into the outlet located on the top front panel of the *CF484* or *CF682*; then close supports to allow the *MER52* to hang in its vertical position; tuck cord into outlet slot before lowering the *MER52* into position to ensure it rests flush against beverage system;

    H. Attach two (2) rubber bumpers, supplied in installation kit, to the lower corners of the *MER52*;

    I. Install fluorescent lamps into lamp holders;

    J. Clean the lens and diffuser panels, being careful not to scratch. Insert the graphics panels between the diffuser and lens panels; then carefully slide lens and graphic panel into slots along front edge of the merchandiser body;

    K. Replace *MER52* top cover and secure with two screws.

    Merchandiser is illuminated when dispenser is plugged in and power switch is on.

19. Seal all counter cutouts in accordance with state and local requirements.

20. Activate the ice lever to assure proper placement of the ice dispenser front cover.

21. Mount the splash plate and cup rests.

The installation is now complete. The system should be sanitized in accordance with the cleaning and sanitizing procedures found in the Installation and Service Manuals for the modules. See individual manuals for start-up and operation.

ILLUSTRATED PARTS LIST
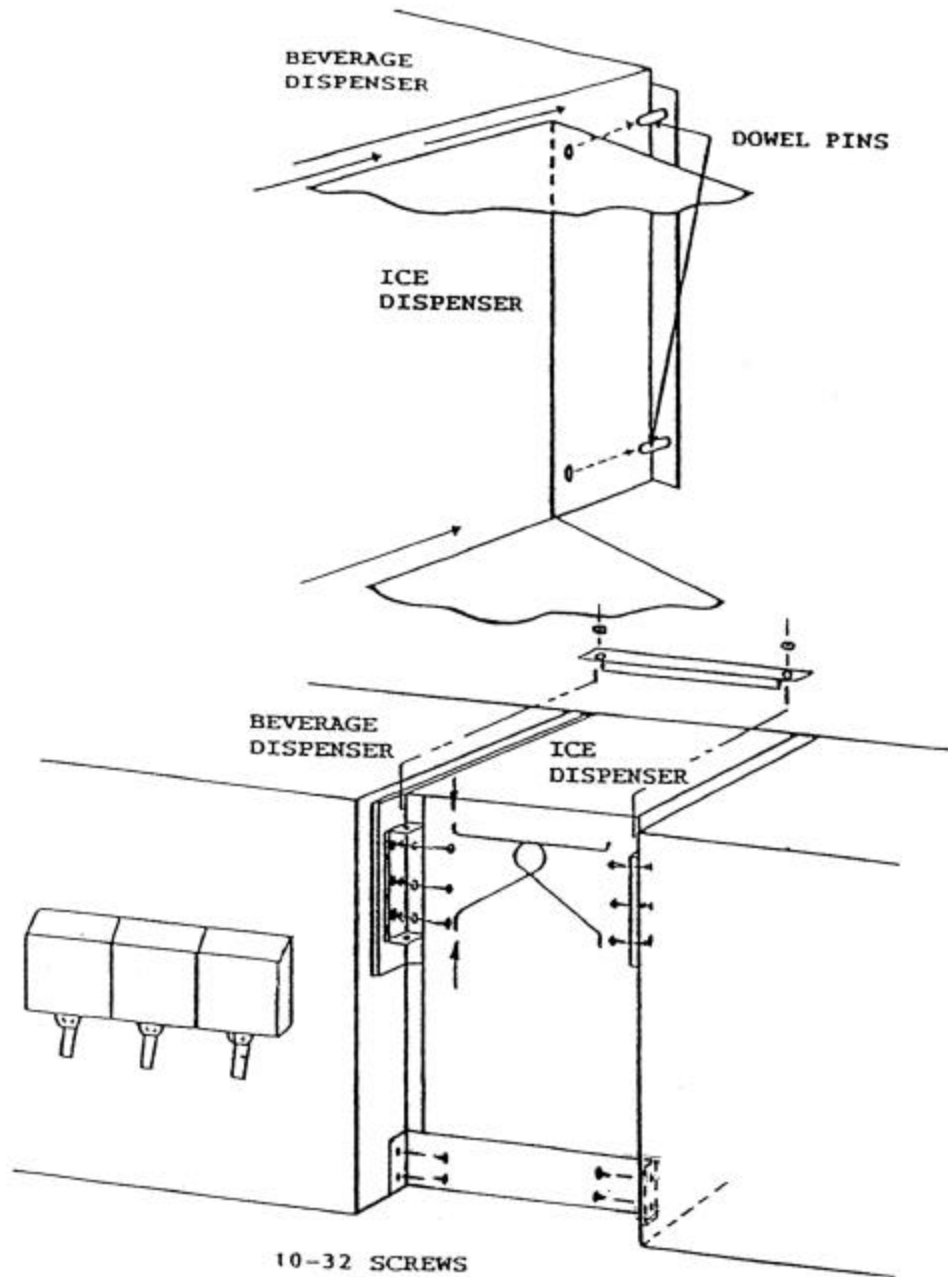
CI6160 CI9010 COUNTER INTELLIGENCE ASSEMBLY

FIGURE 1

CI6160 CI9010 COUNTER INTELLIGENCE ASSEMBLY PARTS LIST

Item No.	Part No.	Name
1	84106-002	Top Plate Assembly, Right, Grey
	84106-102	Top Plate Assembly, Right, White
	84106-001	Top Plate Assembly, Left, Grey
	84106-101	Top Plate Assembly, Left, White
2	84104-001	Side Panel, Left, Grey
	84104-003	Side Panel, Left, Stainless Steel
	84104-201	Side Panel, Left, White
3	84108-005	Front Plate Assembly, CF682
	84108-004	Front Plate Assembly, CF484
4	84120-002	Back Panel, Grey, Left
	84120-001	Back Panel, Grey, Right
	84120-101	Back Panel, White, Right
	84120-102	Back Panel, White, Left
5	84112	Drip Pan
6	84110-001	Drip Pan Skirt

Item No.	Part No.	Name
7	84111	Cup Rest, Beverage
8	84113	Cup Rest, Ice
12	84116	Splash Panel
	84116-001	Splash Panel with Push Button Ice Dispenser
13	84135-001	Front Bracket
14	84104-002	Side Panel, Right, Grey
	84104-004	Side Panel, Right, Stainless Steel
	84104-202	Side Panel, Right, White
15	Consult Factory	Dispensing Valve
16	84000-200	M15 Ice Dispenser
	84000-204	M15B Ice Dispenser
17	84000-553	MER52 Merchandiser, Grey
	84000-562	MER52 Merchandiser, Stainless Steel
	84000-560	MER52 Merchandiser, White
18	84132-004	Trim Strip
19	84161	Template

Part Number: 84169
June 23, 2004
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GASKET INSTALLATION
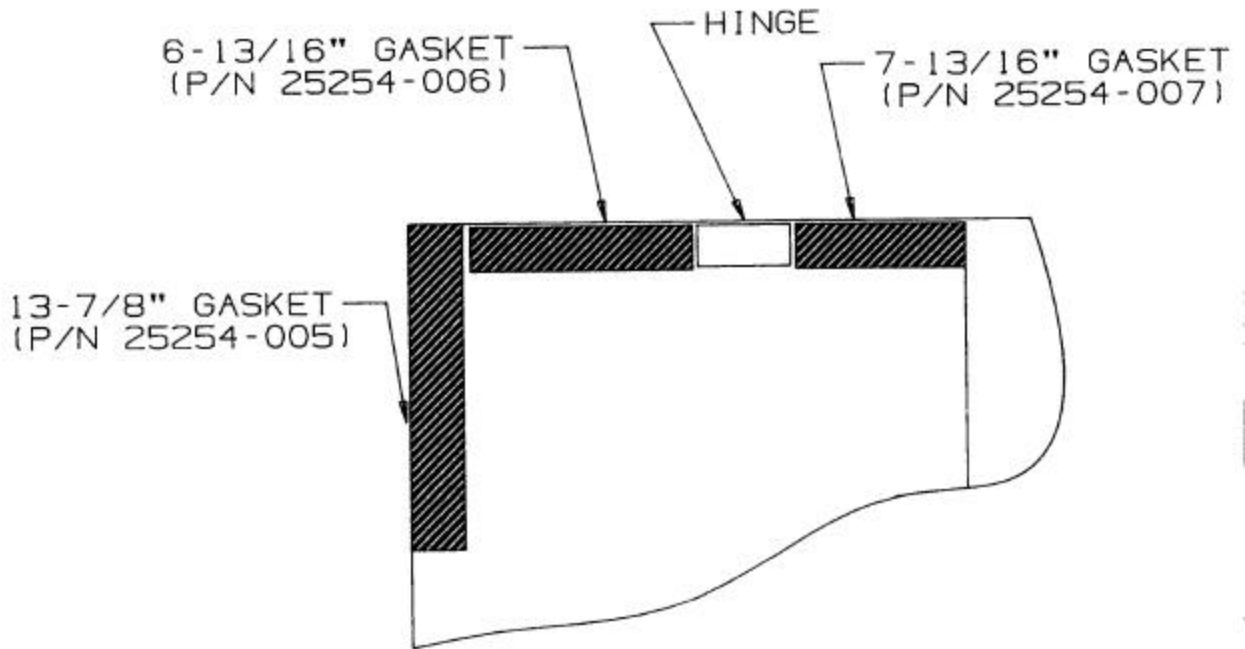
FIGURE 2

FLOW DIAGRAM, TYPICAL INSTALLATION

FIGURE 3

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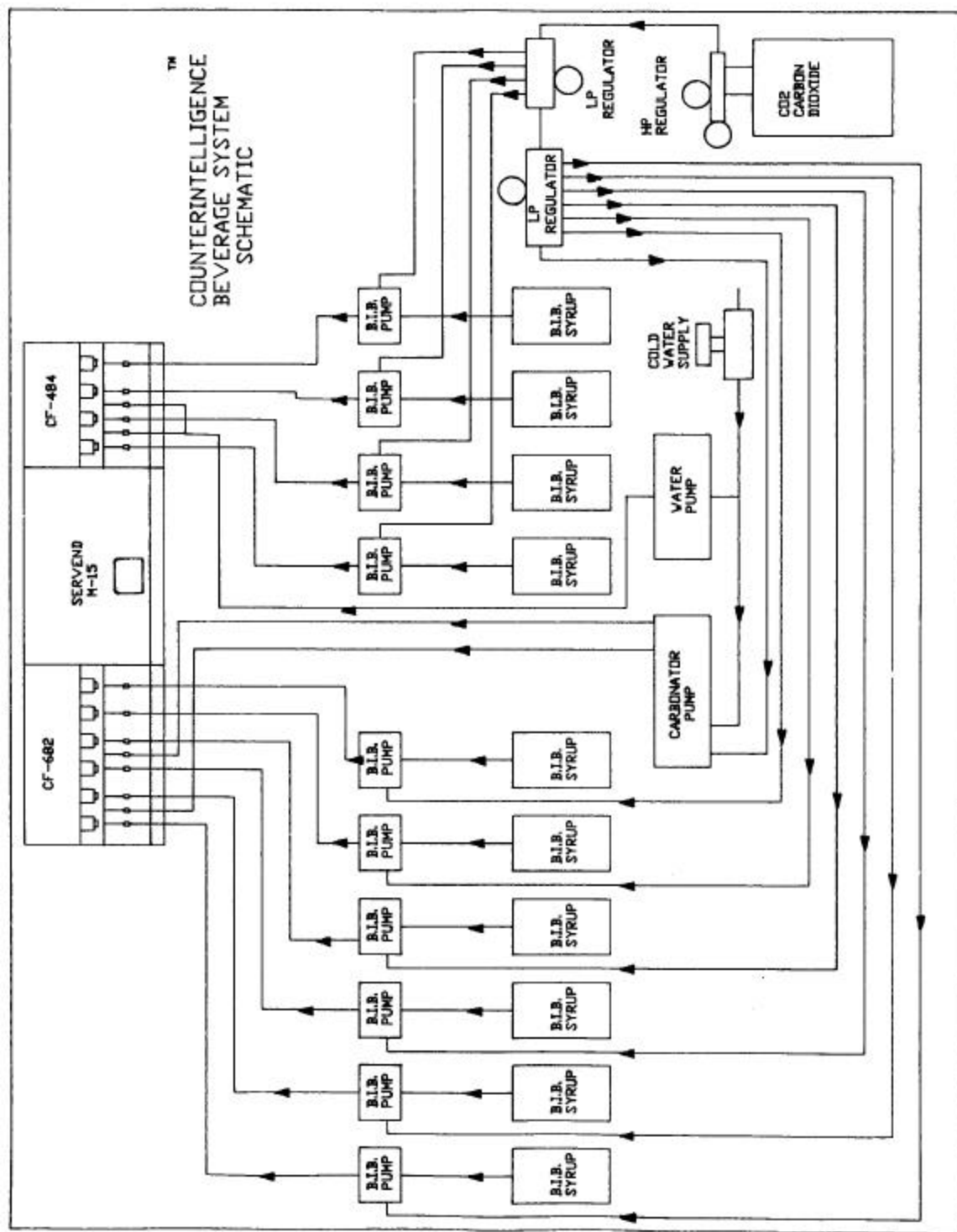CI6160 and CI9010 Counter Intelligence Illustrated Parts List
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MER52

IMPORTANT: *To the user - This manual is a guide for installing, operating and maintaining this equipment. Please read and maintain this document for service and trouble shooting.*

GENERAL DESCRIPTION

The *MER52* merchandiser is an internally lit graphics display illuminated by two 40 watt (F40CW) fluorescent lamps.

INSTALLATION REQUIREMENTS

Location The *MER52* is designed to be mounted on a vertical surface. The supporting structure must be able to support 40 pounds. The *MER52* is approximately 52 inches long by 14 inches high by 5 inches deep.

Electrical Use a 120VAC 20 amp 60HZ grounded outlet.

INSTALLATION INSTRUCTIONS

The top back corners of the *MER52* contain two slip pin hinges half brackets which are used to hang the sign. The sign may be attached to a rigid surface and mounted so that the sign may be rotated about the hinge brackets.

1. Fasten the two hinge halves to the wall according to the preparation drawing. The half which has the spring-loaded pin must be mounted on the right side. The fasteners used must be able to support a minimum of 40 pounds.
2. Pull the spring-loaded pin to the right and insert the left side of the merchandiser onto the left hinge half attached to a rigid surface.
3. Align the right hinge half on the merchandise with the spring hinge half.
4. Release the spring pin to engage the hinge.
5. Move the merchandiser form side to side to make sure the pins are engaged.
6. Fluorescent tubes have been carefully packed inside the *MER52* and have to be installed. Refer to *Changing Lamp*s.

OPERATION

Plug power cord into a 120VAC 60HZ grounded outlet.

CHANGING LAMPS

1. Unplug the *MER52* from power source.
2. Remove two screws at the top of the *MER52* and remove the cover.
3. Carefully slide the plastic lens and graphics panels up and out.
4. Remove the old lamp by rotating it 90 degrees and lift it out of its socket.
5. Install the new lamp by inserting and rotating 90 degrees to the locked position.
6. Carefully replace the lens and graphics panels, making sure that the clear plastic panel is on the outside.
7. Replace the cover and two screws.

CHANGING THE GRAPHICS

1. Unplug the *MER52* from power source.
2. Remove two screws at the top of the *MER52* and remove the cover.
3. Spread the lens panels slightly and lift the graphics panel out the top.
4. Insert the new graphics panel.
5. Replace the cover and two screws.

ILLUSTRATED PARTS LIST

MER52 EXPLODED VIEW
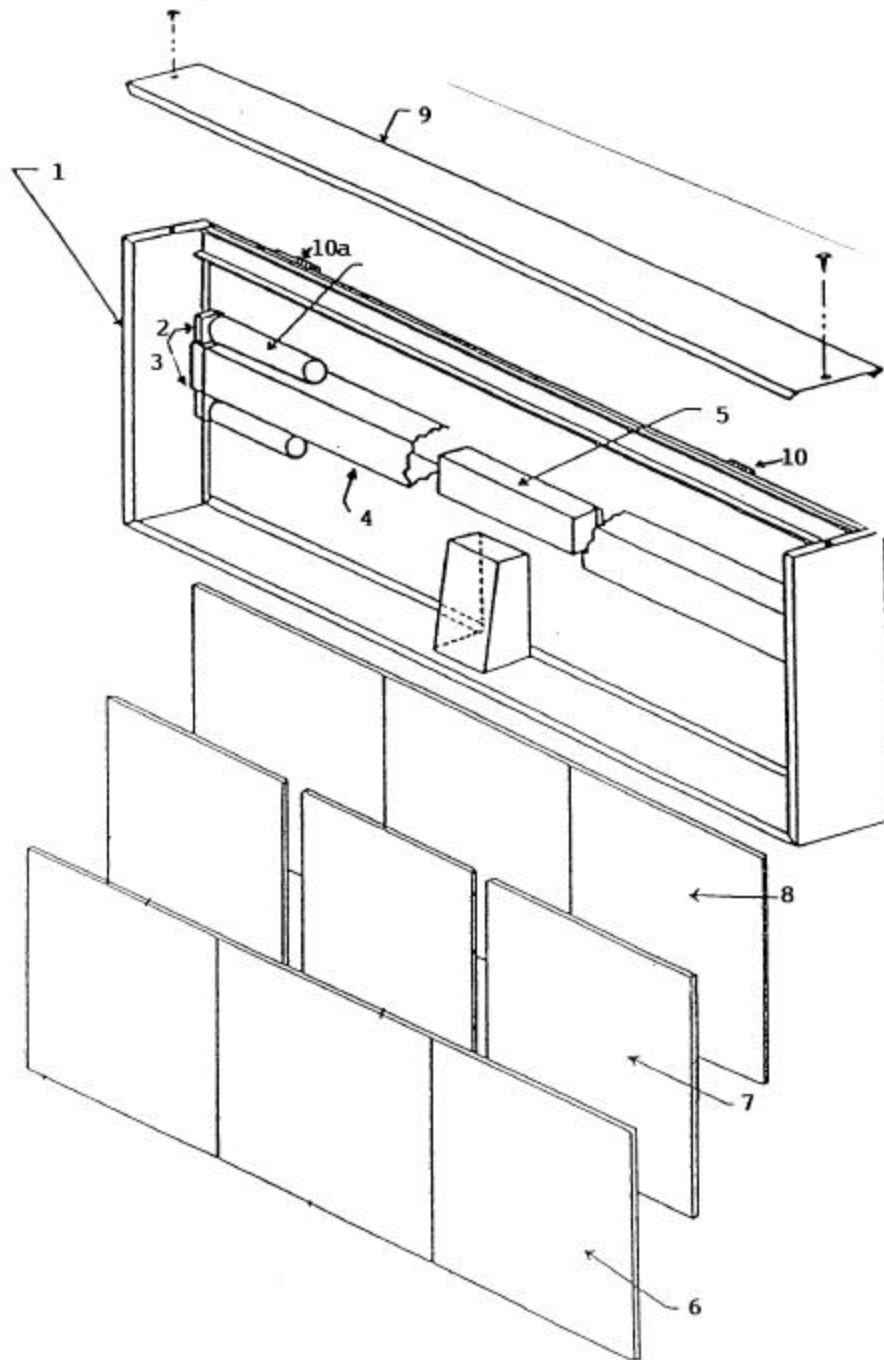
Consult factory for service requirements.

FIGURE 4

MER52 EXPLODED VIEW PARTS LIST

Item No.	Part No.	Name
1	84141-100	Body, Grey
	84141-201	Body, White
	84141-008	Body, Stainless Steel
2	84141-006	Lamp Holder Assembly
3	60098-001	Lamp Socket
4	84141-003	Cover, Wireway
5	60097-001	Ballast
6	84142	Clear Panel Lens
	84142-001	Clear Panel Lens
7	Consult Factory	Graphic Panel

Item No.	Part No.	Name
8	84143	Diffuser Panel Lens, White
	84143-001	Diffuser Panel Lens, White
9	84140	Top Assembly, Grey
	84140-200	Top Assembly, White
	84141-004	Top Assembly, Stainless steel
10	84148-002	Hinge, Right
10a	84148-004	Hinge, Left
Not Shown	82051-004	Cord Set
Not Shown	60040-077	Strain Relief

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