

DIXIE GLASS MERCHANDISER INSTALLATION & SET-UP GUIDE

803,902,360.01

The Dixie Glass Merchandiser (DGM) uses the latest technology in cabinet construction. Its interior design provides durability and flexibility for the beverage industry's changing needs. This manual will guide you through the proper installation, set-up, adjustments, and routine maintenance of the DGM. To insure the best cabinet performance, please follow the manual's instructions and become familiar with the DGM. Please read this manual in its entirety. Repair and maintenance of this machine must only be performed by authorized and competent technical personnel. If you have any questions, please call your local bottler, distributor, or Dixie-Narco for assistance.

RECEIVING YOUR NEW DGM

RECEIVING INSPECTION

Upon receipt, inspect the DGM for shipping damage. If there is any damage, have the driver note it on the Bill of Lading and notify Dixie-Narco. Although I.C.C. regulations require that the consignee originate shipping damage claims, Dixie-Narco will gladly help if you must file a claim.

UNPACKING THE DGM

Remove the stretch wrap and top cap from the DGM.

DO NOT STORE DGMs OUTSIDE WITH THE STRETCH WRAP ON. THIS MAY BOND THE STRETCH WRAP TO THE DGM AND DAMAGE THE SURFACE FINISH.

Check inside the DGM for any accessories, extra parts, or literature.

Remove the shipping boards from the bottom of the DGM. The shipping boards are attached by the leveling legs. Remove the shipping boards by **unscrewing** the leveling legs. This will avoid unnecessary damage to the leveling legs or base. A 1 1/2" "socket-type" wrench should be used on the bottom of the leveling legs. Be sure to replace the legs after removing the shipping boards.

SELECTING A LOCATION

CAUTION: DO NOT TRANSPORT OR MOVE A DGM LOADED WITH PRODUCT AS THIS MAY DAMAGE THE MACHINE OR CREATE A HAZARDOUS CONDITION.



Before placing a DGM on location, be sure that a suitable power supply is available.

ELECTRIC POWER REQUIREMENTS

Refer to the DGM serial number plate to determine the proper voltage and frequency the machine requires (domestically this is 115 Volts and 60 Hertz). Domestically, the vender will operate at +/- 10% of the specified voltage (this is between 103 Volts and 127 Volts). Single phase, alternating current is required. The machine must be plugged in its own properly rated circuit with its own circuit protection (fuse/circuit breaker).

DO NOT USE AN EXTENSION CORD.

GROUNDING REQUIREMENTS

The DGM is equipped with a three-wire power supply cord and **MUST** be plugged into a properly grounded outlet.

DO NOT REMOVE THE GROUND PIN OR IN ANY WAY BYPASS THE GROUNDING OF THE DGM. IF THE OUTLET WILL NOT ACCEPT THE POWER CORD PLUG, CONTACT AN ELECTRICIAN TO INSTALL A PROPER AC OUTLET.

WARNING: Failure to comply with these instructions may subject the user to the risk of injury or electrical shock which can be serious or fatal.



PLACING THE DGM ON LOCATION

CAUTION: Do not transport the DGM to or from the location when it is loaded with product. Damage to the DGM may result.

Place the DGM on a solid, flat, and level surface. The DGM must be close enough to an electrical outlet that an extension cord is not required.

Do not block the front or rear grilles. Maintain a minimum of 4 inches (10 cm) from both grilles to insure proper air flow to the condensing unit. For enclosed installations, also maintain a minimum of 2.5 inches (6 cm) at the top or 2.5 inches (6 cm) from either side.

For National Sanitation Foundation (NSF) approved installations, face the rear of the DGM toward a wall or other permanent surface. In addition, the rear of the DGM must not be more than 12" (30 cm), nor less than 4" (10 cm) from the surface.

After placing the DGM, remove the door shipping bracket. Instructions for bracket removal are attached to the front of the DGM. **IMPORTANT: SAVE THE DOOR SHIPPING BRACKET. IT MUST BE INSTALLED WHEN MOVING THE DGM TO A NEW LOCATION.**

LEVEL THE DGM

The DGM must be level for proper functioning of the door. Adjust the leveling legs as required to level the DGM. Be sure that all the legs touch the floor. **If you cannot level the DGM, select another location.** A carpenter's level will help to verify that the DGM is level.

DO NOT PLACE ANY OBJECTS UNDER THE MACHINE.

DANGER: The DGM must be properly located and leveled to minimize the risk of injury or death in case of user misuse or vandalism.



SANITATION SEALING

For NSF approved installations only, seal the bottom of the DGM to the floor with NSF approved sealant. Caulk completely around the cabinet base, forming a continuous seal between the floor and cabinet. Dow Corning 730 series RTV silicon sealant is suggested.

CHECK THE LIGHTING

Plug the DGM into the selected outlet and check that the lamp(s) is(are) working. If they do not work, unplug the unit and repair the problem.

WARNING: BE SURE THAT POWER IS DISCONNECTED FROM THE MACHINE BEFORE INSPECTING OR REPLACING THE LAMPS. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR FATAL.



SETTING UP THE DGM

INSTALLING THE SHELVES

Wire racks and shelf clips are shipped inside the DGM. Insert the shelf clips in the desired locations in the pilasters. Place the wire racks on the shelf clips. The wire racks are fully adjustable in 1/2" increments to meet any desired product spacing. There are reference numbers on the pilasters to ease shelf installation.

For horizontal shelves, place the shelf clips at the same height to provide a level surface.

For optional gravity flow shelves, contact a Dixie-Narco Factory Service Representative, or Dixie-Narco Factory Service at 800-688-9090 or 803-266-5000. This configuration provides a sloped surface for single product dispensing. Although this option uses the same shelves it requires gravity flow organizers.

NOTE: TO MAINTAIN PROPER AIR FLOW, STORE PRODUCT ON THE SHELVES ONLY. DO NOT STORE PRODUCT (OR OTHER OBJECTS) ON THE BOTTOM PANEL INSIDE THE DGM.

REVERSING THE PIKE DOOR

For maximum flexibility, DGM doors are field reversible. All DGMs with Pike doors are factory hinged on the right. If you need a left-side hinged door, refer to illustration one and follow these steps:

WARNING: THE GLASS DOOR IS HEAVY AND WILL REQUIRE TWO (2) PEOPLE TO HANDLE.

Before you begin, make sure you have the three hex wrenches. A 5/32" is supplied with every DGM; a 5/64" and 9/64" are not supplied. You will also need a socket set, torque wrench, small flatblade screwdriver, 3/8" dowel rod 6" longer than the height of the door, and a soft-faced hammer. If the door has a header, remove the header before beginning this procedure. Reinstall it afterwards. If a decal is on the glass, remove it at the end of the procedure and replace it with a new one.

DOOR REMOVAL

1. Remove the door by lifting it up and off the bottom hinge. If the door does not disengage the bottom hinge, loosen (do not remove) the three top hinge bolts and try again. After removing the door, set it aside.

HINGE REVERSAL

1. Remove the hole plugs from the left side top hinge plate mounting location of the cabinet and save them.
2. Remove the top hinge bolts.
3. Flip the top hinge plate over and loosely install it in the new location, replacing any hinge shims that were originally used. Note: The shims used need to be reinstalled in the same order they are removed.
4. Install the hole plugs in the right side top hinge bolt holes.
5. Remove the front grill from the cabinet.
6. Remove the door shipping bracket bolts and the door shipping bracket (if they are still on the cooler). Save all shims for future use.
7. Remove the bottom hinge bolts and the bottom hinge bracket. Save all shims for future use.
8. Remove the hinge plate from the bottom hinge bracket. Note the star-shaped hole is located on the right; the door stop is closest to this hole and the 1/4-20 button head screw is farthest from it. See illustration 2.
9. Reinstall the hinge plate on the bottom hinge bracket with the star-shaped hole at the left side of the bottom hinge bracket. Do not tighten the two 7/16" keps nuts on the stop plate at this time.
10. Install the new bottom hinge bracket, replacing the shims from step 7. Hold the bracket up against the mullion and out against the cabinet shell. Tighten the bolts to 100 in.-lb of torque. Exceeding 100 in.-lb. of torque may strip the cabinet base box holes. If this happens, nuts will be required on the bolts.
11. Loosen the keps nuts on the hinge plate. Adjust the hinge plate on the hinge bracket until the gap between the hinge plate and the metal face of the mullion is 23/32". Tighten the keps nuts to 100 in.-lb. of torque. Exceeding 100 in.-lb. of torque may damage the keps nut or bolt.

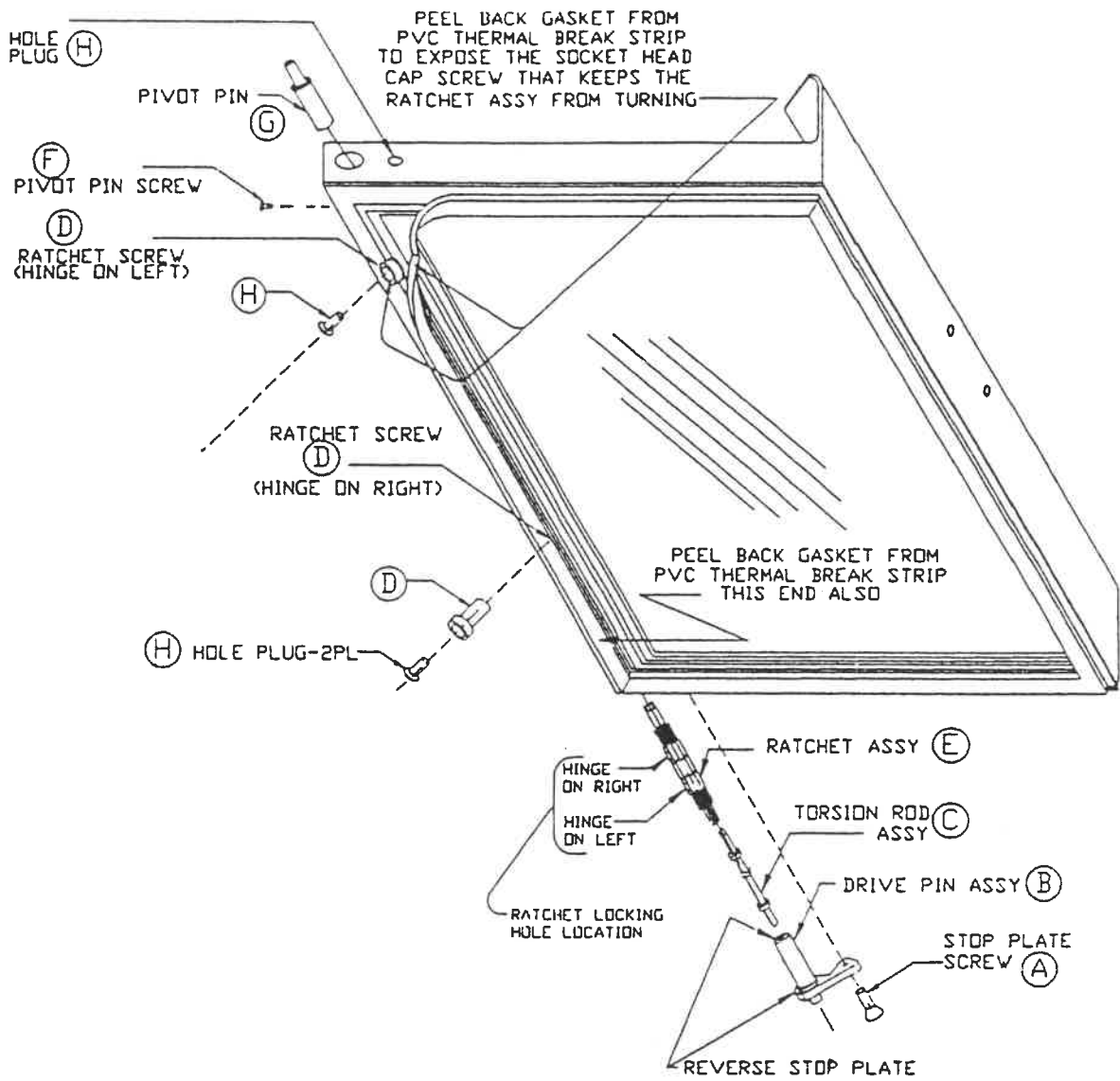
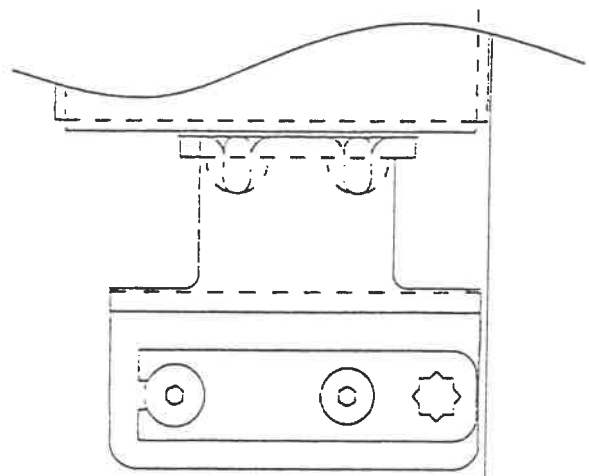


Illustration 1



For Hinge on Right Side
Illustration 2

DOOR REVERSAL (Reference Illustrations 1 & 2)

Tools needed: 5/32" hex key, 5/64" hex key, 9/64" hex key, torque wrench, small flatblade screw driver, 3/8" dowel rod 6" longer than the height of the door, and a soft-faced hammer

1. Lay the door on a flat surface with the gasket up.
2. Using a 5/32" hex key, remove the stop plate screw "A" from the bottom of the door.
3. On the hinge pin side of the door, peel back the gasket at the top and bottom to reveal the six (6) hole plugs (three at the top and three at the bottom) and remove the hole plugs.
4. Remove the ratchet screw "D" at the top and bottom using a 9/64" hex key.
5. Remove the drive pin assembly from the bottom of the door.
6. Remove the torsion rod "C" from inside the door frame through the hole exposed when you removed the drive pin assembly in step 5.
7. Remove the ratchet assembly "E" by lifting the door and allowing the ratchet assembly to slide out the hole exposed when you removed the drive pin assembly.
8. Reverse the stop plate. (Reference Illustration 2.)
 - a. Remove the E-ring using a small flatblade screwdriver. Be careful not to lose the E-ring.
 - b. Remove the stop plate pin washer.
 - c. Remove the stop plate pin and reverse the side the pin enters.
 - d. Install the stop plate pin washer.
 - e. Install the E-ring.
9. Using a 5/64" hex key, remove the pivot pin screw "F" from the top of the door.
10. Remove the hole plug near the pivot pin.
11. Insert a 3/8" diameter dowel rod, approximately 6" longer than the door, in the hole at the bottom of the door and carefully tap the pivot pin "G" out of the top of the door.
12. Install the pivot pin in the opposite end of the door, ensuring the pivot pin screw hole aligns with the hole in the side of the door.

Note: Pin has press fit and must be tapped in place with a soft-faced hammer.
13. Install the pivot pin screw "F" using a 5/64" hex key.
14. Install the hole plug removed in step 10 in the hole near the pivot pin.
15. Place ratchet assembly "E" on the end of the torsion rod "C".
16. Slide torsion rod with ratchet assembly in the door until it bottoms out.
17. Insert the 5/32" hex key in the end of the pivot pin and rotate the ratchet until the ratchet locking hole lines up with the ratchet screw hole in the door.
18. Install the top ratchet screw "D" and tighten to 10 in.-lb. torque using a 9/64" hex key.
19. Install the bottom ratchet screw "D" and tighten to 10 in.-lb. torque using a 9/64" hex key.
20. Install drive pin assembly "B".
21. Install stop plate screw "A" and tighten.
22. Reinstall all hole plugs removed in step 4.
23. Reinstall the gasket by squeezing it back in the track of the door frame.
24. Insert the 5/32" hex key in pivot pin "G" and rotate the ratchet to test for proper installation.

DOOR HANDLE REVERSAL (79" DGMs only)

1. Remove the door header.
2. Remove all header screws, including the bottom right corner.
3. Remove handle screws "C" and "D".
4. Slide the handle to opposite end "B".
5. Reinstall the screws removed in step 3.

DOOR INSTALLATION

1. Insert the top hinge pin into the top hinge's star shaped hole.
2. Hold the door against the cabinet and pull up firmly. Align the bottom hinge pin with the star-shaped hole in the bottom hinge bracket assembly and lower the door.
3. Rotate the door slowly until the bottom hinge pin drops securely in the star-shaped hole.
4. Close the door.
5. Position the top of the door front to rear so the top hinge plate indentations are even with the front of the breaker. Also, hold the door parallel to the sides of the cabinet. Maintain these positions while tightening the top hinge bolts.
6. Tighten the bolts to 100 in.-lb. of torque. Exceeding 100 in.-lb. of torque may strip the top hinge bolt holes.

Set Door Closing Spring Tension

Note: Be sure the DGM is level before setting the door closing spring tension.

7. The adjustment screw is located at top of the door
8. Insert the supplied 5/32" hex key in the opening and engage the adjustment screw. Turn the wrench, counter-clockwise if hinged on the right or clock-wise if hinged on the left, until you hear a distinctive "click". The click signals that you have tightened the torque rod. After each click, check the door for proper closing force. To check the door for proper closing force, open the door twelve (12) inches (304 mm) and let it go. The door should close itself, but not slam hard. Continue adding torsion until the door closes properly.

Do not exceed maximum clicks of torsion. See maximum torque rating.



CAUTION: THE TORQUE ROD WILL BE DAMAGED IF MORE THAN MAXIMUM CLICKS ARE APPLIED.

Maximum Torque Ratings (Number of Clicks)

79" DGM Door	7 Clicks
66" DGM Door	6 Clicks
56" DGM Door	5 Clicks

Check Door Seal

9. Check the gasket seal around the door. This is easily done by inserting a dollar bill between the door and cabinet and dragging it along the mating surfaces. The door needs adjustment if the bill slips out freely. If the door needs further adjustment, refer to the "Door Adjustment" section.
10. Replace the front grille.

DOOR ADJUSTMENT

Correcting a Poor Gasket Seal

If the door needs "fine tuning" for a proper seal, the following adjustments are provided:

- The top hinge plate shims up or down.
- The top hinge plate slides front to rear by slots.
- The top hinge plate adjusts left to right by rotating in its slots.
- The bottom hinge bracket shims in or out.
- The bottom hinge bracket slides left to right by slots.
- The door stop bracket slides front to rear by slots.

Resetting Door Closing Tension

Reset the door tension spring if it is not closing the door properly. To reset the spring:

1. Completely remove and replace the door. This relieves all door spring tension.
2. (RIGHT HAND HINGED DOOR). Insert the supplied 5/32" hex key in the opening and engage the adjustment screw. Turn the wrench counter-clockwise (viewed from above) until you hear a distinctive "click".
(LEFT HAND HINGED DOOR). Insert the supplied 5/32" hex key in the opening and engage the adjustment screw. Turn the wrench clockwise (viewed from above) until you hear a distinctive "click".

The click signals that you have tightened the torque rod. After each click, check the door for proper closing force. To check the door for proper closing force, open the door twelve (12) inches (304 mm) and let it go. The door should close itself, but not slam hard. Continue adding torsion until the door closes properly.

Do not exceed maximum clicks of torsion. See step 8, page 7.

CAUTION: THE TORQUE ROD WILL BE DAMAGED IF MORE THAN THE MAXIMUM NUMBER OF CLICKS AS SPECIFIED ON PAGE 7 ARE APPLIED.



OPTIONAL EQUIPMENT

DOOR HEADER

Locate and loosen the two (2) screws, one on each side of the door, about six (6) inches from the top. Hang the header on the screws by the "T" slots in the header endplates. While holding the header against the door, tighten the two screws.

ROUTINE CLEANING AND MAINTENANCE



Do Not Use A Water Jet or Nozzle To Clean The DGM

GENERAL CARE

- Wash the DGM's exterior with a good soap or detergent mixed in warm water.
- Wash all plastic parts with a mild soap and warm water.
- Wax the DGM's exterior often with a good grade of automobile wax.
- Repair any scratches on painted surfaces to prevent corrosion.

WARNING: The compressor and lighting circuits are always live when the plug is connected to an electrical outlet.



CONDENSER

- Check the condenser and front grill periodically for dirt or lint build-up.
- Remove the build-up with a brush or vacuum, or blow the dirt out of the condenser with compressed air and approved safety nozzle.
- Ensure nothing obstructs the air intake at the bottom of the main door.
- Ensure nothing obstructs the air exhaust at the rear of the cabinet.

CLOGGED DRAIN



**WARNING! RISK OF ELECTRICAL SHOCK.
UNPLUG THE DGM BEFORE CLEANING THE DRAIN.**

Keep the drain fitting and hose clear for proper condensate drainage. To clear a clogged drain line, start by removing the drain hose. Reach through the plastic door on the ballast plate and loosen the wire hose clamp. Remove the hose and clean it. Clear the drain fitting from below with a small brush or similar device. Flushing the drain area may also be necessary. Place a suitable hose on the drain fitting beneath the cabinet and route it to a bucket or outside drain. Remove the front panel section inside the DGM. Slowly pour water into the DGM bottom, flushing debris down the drain, and out through the hose. Replace the DGM drain hose with wire clamp and install the interior panel.

LUBRICATION

The DGM Refrigeration System does not require any field lubrication. The hermetic refrigeration system and fan motors are manufactured with lifetime lubrication.

Lubricate the hinge side of the door gasket periodically. Use petroleum jelly, non-stick baking spray, or other similar non-toxic lubricants.

TEMPERATURE CONTROL SETTING AND ADJUSTMENT

PRODUCT TEMPERATURE ADJUSTMENT

The product temperature in the DGM is adjustable. You can adjust the temperature by turning the control knob or slot adjustment on the bottom panel. The numbers on the knob or notches on the plate show relative position. #9 is the coldest setting and #1 is the warmest. The control also has an "off" position which turns the compressor off.

ALTITUDE ADJUSTMENT



WARNING! HAZARDOUS MOVING PARTS & RISK OF ELECTRIC SHOCK. UNPLUG THE DGM BEFORE PROCEEDING WITH THE TEMPERATURE CONTROL ALTITUDE ADJUSTMENT.

At higher elevations, temperature control altitude adjustment may be necessary to prevent evaporator freeze-ups. To adjust, pull the temperature control knob off. Remove the screws which secure the bottom panel. Remove the bottom panel. Remove the screws which secure the temperature control. Remove the control. Locate the two small screws marked "cut in" and "cut out" on the control. Adjust both screws as shown in the following table. Replace the control, control screws, panel, panel screws, and the knob. Let the cooler run overnight before re-evaluating its performance or making another adjustment.

TEMPERATURE CONTROL ALTITUDE ADJUSTMENT TABLE

<u>Altitude Feet (Meters)</u>	<u>Cutler-Hammer 9531 Both Screws Counter-Clockwise</u>
2000 (610)	1/8 Turn
4000 (1219)	1/4 Turn
6000 (1829)	1/2 Turn
8000 (2438)	5/8 Turn

DO NOT ADJUST THE SCREWS MORE THAN 1/8 OF A TURN IN EITHER DIRECTION AT ONE TIME.

CORRECTING PROBLEMS

If any problems occur, refer to the service manual, consult the Dixie-Narco Factory Service Department, or call your Dixie-Narco Representative.

1-800-688-9090

1-803-266-5000

NOTE: Have the machine model # and serial # available.