

Introduction

Purpose

This document provides instructions for assembling and installing Canopy Kits [K35496 (for 48-inch wide frame)] and [K35498 (for 36-inch narrow frame)] for The Advantage® Series units, and Canopy Kit (K96632-02) for Encore® units.

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Required Tools

Following tools are required for the installation of the Canopy Kits (K35496 and K35498) for The Advantage Series and Canopy Kit (K96632-02) for Encore units:

- 17 mm Socket and Open End Wrench
- 10 mm Socket and Open End Wrench

Required Reading



Before installing the equipment, the installer must read, understand, and follow:

- This Manual
- NFPA 30, The Automotive and Marine Service Station Code
- NFPA 70, The National Electric Code
- Applicable federal, state, and local codes and regulations

Note: Failure to do so may adversely affect the safe use and operation of the equipment.

Parts List

The Advantage Series only

Following table lists the parts included in the K35496-01 and K35498-01 Kits.

Description	Part Number	Quantity
Panel - Front/Rear (Customer Specific)	T17232-G168 (K35496-01 only) T17232-G165 (K35498-01 only)	2
Panel - Side (Customer Specific)	T17232-G2	2
Kit, Installation Hardware (refer to "K94106-10 Kit")	K94106-10	1

K94106-10 Kit

Following table lists the parts included in the K94106-10 Kit.

Description	Part Number	Quantity
Canopy Bracket	M00780B001PB0	4
Kit, Installation Hardware (refer to "K94106-02 Kit")	K94106-02	1

Note: K94106-10 is available as part of K35496-01 and K35498-01.

K94106-02 Kit

Following table lists the parts included in the K94106-02 Kit.

Description	Part Number	Quantity
Washer, Flat M6	M00959B010	32
Bolt, Hex M6 x 16	M01115B004	20
Washer, Lock M6	M01020B001	20
Nut, Hex M6	M01114B004	12

Note: K94106-02 is available as part of K35496-01 and K35498-01.

For Encore Units Only

Following table lists the parts included in the K96632-02 Kit.

Description	Part Number	Quantity
Panel - Front/Rear (Customer Specific)	M00781B001	2
Panel - Side (Customer Specific)	M00782B001	2
Kit, Installation Hardware (refer to "K94399-03 Kit")	K96631-01	1

K96631-01 Kit

Following table lists the parts included in the K96631-01 Kit.

Description	Part Number	Quantity
Canopy Bracket	M00780B001PB0	4
Kit, Installation Hardware (refer to "K94399-03 Kit" on page 3)	K94399-03	1

Note: K96631-01 is available as a part of K96632-02.

K94399-03 Kit

Following table lists the parts included in the Installation Hardware Kit (K94399-03).

Description	Part Number	Quantity
Washer, Flat M6	M00959B010	24
Bolt, Hex M6 x 16	M01115B004	16
Washer, Lock M6	M01020B001	16
Nut, Hex M6	M01114B004	8

Related Documents

Document Number	Title	GOLD Library
MDE-2530	Pump and Dispenser Installation Manual	Advantage and Legacy® Models
MDE-2531	Start up and Service Manual Sections 1-7	Pump and Dispenser Service
MDE-2677	Kits K35497 and K93757 Lighted Canopy Conduit	Advantage and Legacy Models
PT-1728	The Advantage Illustrated Parts Manual	Parts Manual
PT-1936	Encore Illustrated Parts Manual	Parts Manual

Important Safety Information

Notes: 1) *Save this Important Safety Information section in a readily accessible location.*

2) *Although DEF is non-flammable, Diesel is flammable. Therefore, for DEF cabinets that are attached to Diesel dispensers, follow all the notes in this section that pertain to flammable fuels.*

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining, or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock, or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain, or service this equipment.

Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

⚠ WARNING

 The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.

 You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gilbarco equipment.

Evacuating, Barricading, and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones, or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)

Read the Manual

Read, understand, and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call a Gilbarco Authorized Service Contractor or call the Gilbarco Support Center at 1-800-800-7498. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; *Code for Motor Fuel Dispensing Facilities and Repair Garages*, NFPA 70; *National Electrical Code (NEC)*, Occupational Safety and Health Administration (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain, or service this equipment in accordance with these codes, regulations, and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

Replacement Parts

Use only genuine Gilbarco replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gilbarco replacement parts could create a safety hazard and violate local regulations.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury, or damage to the equipment:



DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.



WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

CAUTION without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage.

Working With Fuels and Electrical Energy

Prevent Explosions and Fires

Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

DEF is non-flammable. Therefore, explosion and fire safety warnings do not apply to DEF lines.

No Open Fire



Open flames from matches, lighters, welding torches, or other sources can ignite fuels and their vapors.

No Sparks - No Smoking



Sparks from starting vehicles, starting, or using power tools, burning cigarettes, cigars, or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion, or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.

In an Emergency

Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

WARNING



Gasoline/DEF ingested may cause unconsciousness and burns to internal organs. Do not induce vomiting. Keep airway open. Oxygen may be needed at scene. Seek medical advice immediately.

WARNING

DEF generates ammonia gas at higher temperatures. When opening enclosed panels, allow the unit to air out to avoid breathing vapors. If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth, and lungs. Keep airway open. Seek medical advice immediately.

WARNING



Gasoline/DEF spilled in eyes may cause burns to eye tissue. Irrigate eyes with water for approximately 15 minutes. Seek medical advice immediately.

WARNING



Gasoline/DEF spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

WARNING

DEF is mildly corrosive. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and safety showers are close to the work location. Seek medical advice/recommended treatment if DEF spills into eyes.

IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

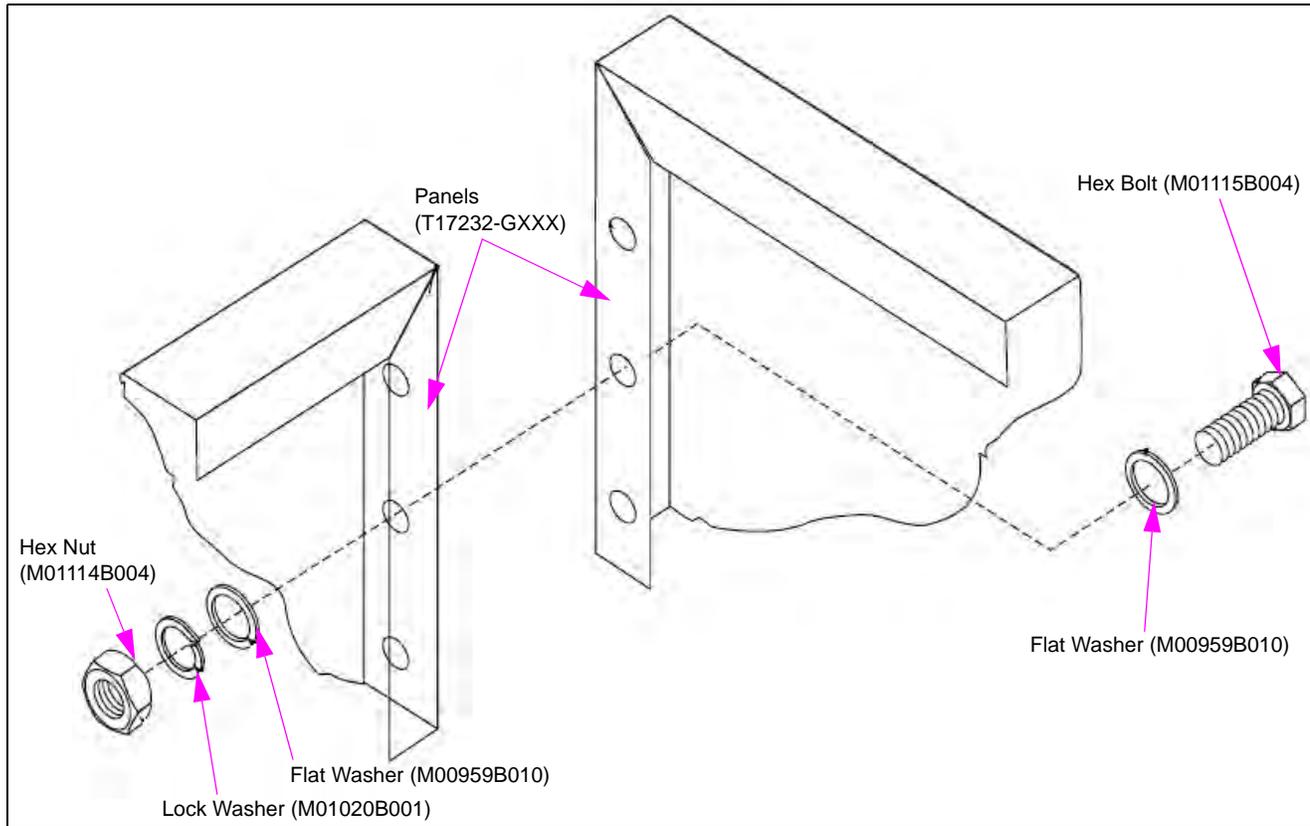
Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical, or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

Assembling the Panels [T17232-GXXX (The Advantage Series Only)]

The Assembling Panels (T17232-GXXX) are as shown in [Figure 1](#).

Figure 1: Assembling the Panels (T17232-GXXX)



To assemble the four major panels (T17232-GXXX), proceed as follows:

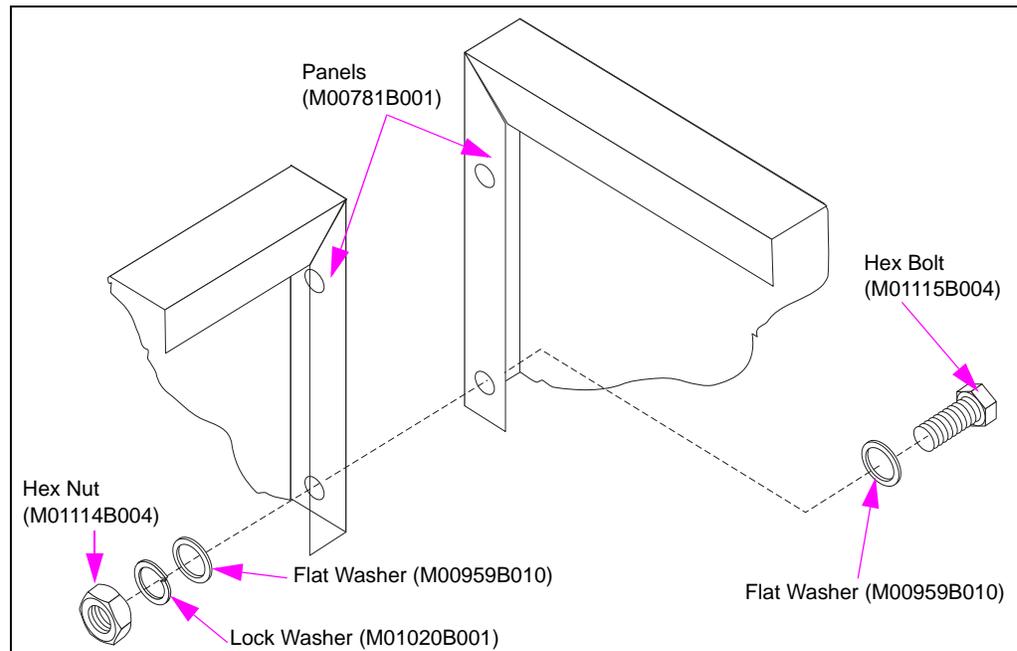
Note: Before assembling, check the panel graphics for proper positioning.

- 1 Position the end panel and side panel so that the three holes in each corner are aligned.
Note: Use the truck bed as a work table and assemble by placing either the short panel flat and installing the long panels from [Figure 1](#).
- 2 Place the Flat Washer (M00959B010) on the Hex Bolt (M01115B004), and then insert the Hex Bolt (M01115B004) as shown in [Figure 1](#) through one of the three pairs of aligned holes in both the Panels.
Note: Use the needle nose pliers to hold the Hex Bolt (M01115B004) and Washer (M00959B010).
- 3 Fasten and secure the Hex Bolt (M01115B004) by installing in the following order:
 - Flat Washer (M00959B010)
 - Lock Washer (M01020B001)
 - Hex Nut (M01114B004)
- 4 Repeat for each of the three holes at all four corners of the assembly.

Assembling the Panels [M00781B001 (Encore Units Only)]

The Assembling Panels (M00781B001) are as shown in [Figure 2](#).

Figure 2: Assembling the Panels (M00781B001)



To assemble the four major panels (M00781B001), proceed as follows:

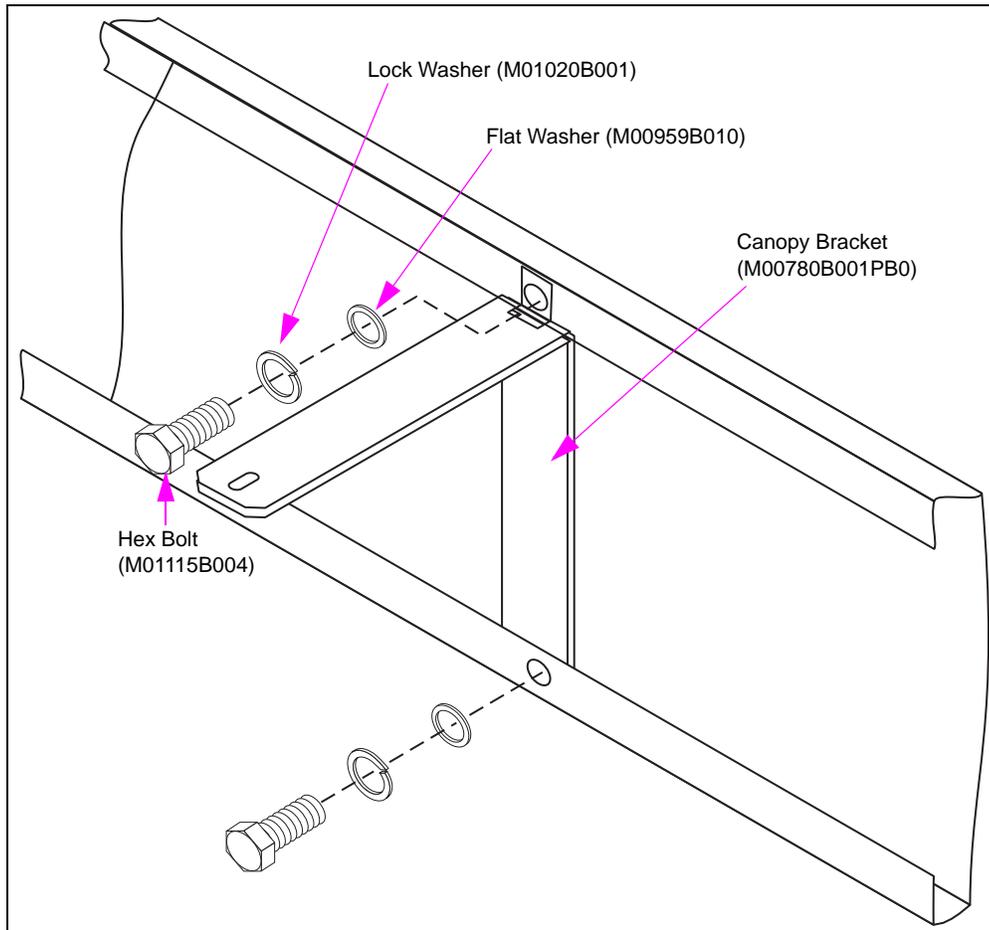
Note: Before assembling, check the panel graphics for proper positioning.

- 1 Position the end panel and side panel, so that the two holes in each corner are aligned.
Note: Use the truck bed as a work table and assemble by placing either the short panel flat and installing the long panels from [Figure 2](#).
- 2 Place the Flat Washer (M00959B010) on the Hex Bolt (M01115B004), and then insert the Hex Bolt (M01115B004) as shown [Figure 2](#) through one of the two pairs of aligned holes in both the panels.
Note: Use the needle nose pliers to hold the Hex Bolt (M01115B004) and Washer (M00959B010).
- 3 Fasten and secure the Hex Bolt (M001115B004) by installing in the following order:
 - Flat Washer (M00959B010)
 - Lock Washer (M01020B001)
 - Hex Nut (M01114B004)
- 4 Repeat for each of the two holes on all the four corners of the assembly.

Attaching the Canopy Bracket [M00780B001PB0 (For The Advantage Series Only)]

The Canopy Bracket (M00780B001PB0) for The Advantage Series is as shown in [Figure 3](#).

Figure 3: Canopy Bracket (M00780B001PB0) - The Advantage Series Only



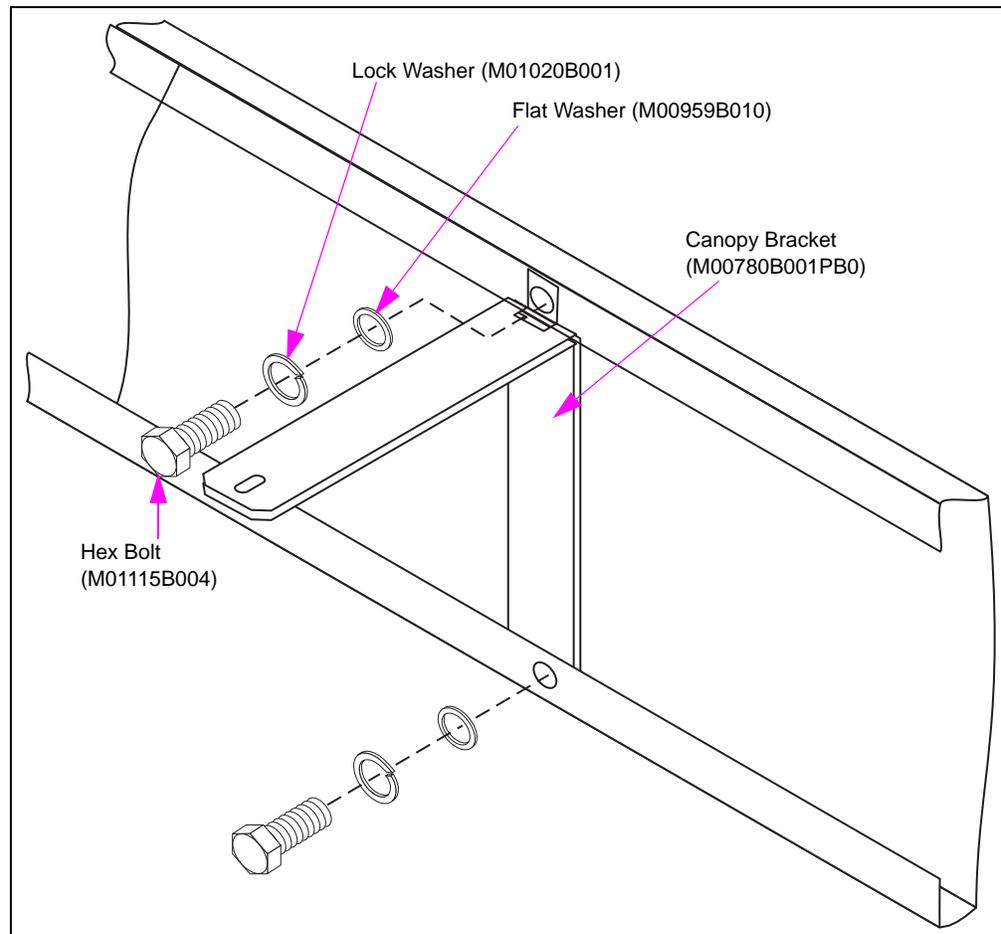
To attach one Canopy Bracket (M00780B001PB0) to each Long Panel (T17232-GXXX), proceed as follows:

- 1 Install the Lock Washer (M01020B001) and then the Flat Washer (M00959B010) on the Hex Bolt (M01115B004).
- 2 Insert the Hex Bolt (M01115B004) end through the panel mounting hole and then through the hole into the Canopy Bracket (M00780B001PB0).
- 3 Thread the Hex Bolt (M01115B004) securely into the Canopy Bracket (M00780B001PB0).

Attaching the Canopy Bracket [M00780B001PB0 (For Encore Units Only)]

The Canopy Bracket (M00780B001PB0) for Encore Units is as shown in [Figure 4](#).

Figure 4: Canopy Bracket (M00780B001PB0) - Encore Units Only



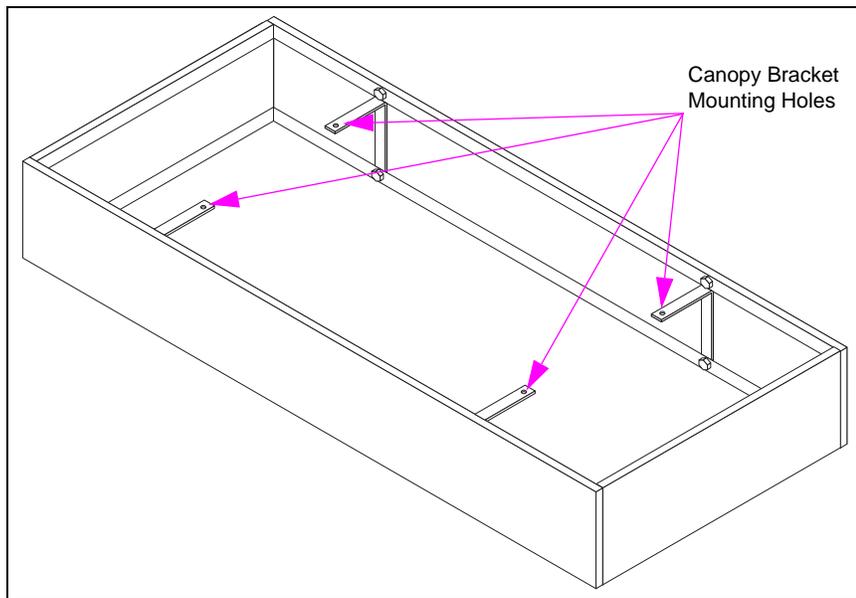
To attach one Canopy Bracket (M00780B001PB0) to the panel, proceed as follows:

- 1 Install the Lock Washer (M01020B001) and then the Flat Washer (M00959B010) on the Hex Bolt (M01115B004).
- 2 Insert the Hex Bolt (M01115B004) end through the panel mounting hole and then through the hole into the Canopy Bracket (M00780B001PB0).
- 3 Thread the Hex Bolt (M01115B004) securely into the Canopy Bracket (M00780B001PB0).

Installing the Assembled Canopy (The Advantage Series and Encore Units)

The assembled Canopy is shown in [Figure 5](#).

Figure 5: Installing the Assembled Canopy



To install the assembled Canopy, proceed as follows:

- 1 Remove the four Lifting Brackets and Bolts from top of the Upper Housing. Retain the Bolts for reassembly.

Note: Lifting Brackets will not be reinstalled. However, they may be required in future if the unit has to be moved. It is recommended to join them with a wire or a tie wrap and store carefully in the Hydraulics or Main (Electronics) Cabinet.

- 2 Lift the Canopy onto the Upper Housing, aligning the Canopy Bracket Mounting Holes and mounting holes for the Lifting Brackets.
- 3 Secure the Canopy to the Upper Housing using the four Bolts retained.

Installing the assembled Canopy on the The Advantage Series and Encore Units is now complete.

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