

Introduction

Purpose

This document provides instructions to install the Upper Housing Hose Retriever Retrofit Kit (M11754K00X) and Canopy Connecting Bracket (M11330B00X) on Encore® units.

Note: Hose Retriever Retrofit Kits are available for 4, 6, and 8 hose units.

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Required Tools

Following tools are required to install the Upper Housing Hose Retriever Retrofit Kit on Encore units:

- 3/8-inch Socket Set
- Flat-blade Screwdriver

Parts List

Following table lists the parts included in the M11754K001 Kit (for 4-hose units).

Item	Description	Part Number	Quantity
1	Assembly, Hose Retriever Housing (Welded)	M11798B001	1
2	Stud Metric Clinch	Q12887-47	14
3	Bracket, Support, Hose Retriever Housing	M11332B001	2
4	Assembly, Hose Retriever Housing (Welded)	M11798A001	2
5	Bracket, Hose Retriever Housing Cover	M11869B001	2
6	Screw Metric Thread Forming	M00417B001	12
7	Bracket, Cable Reel Hanger	M11329B001	2
8	Bracket, Cable Reel Hanger	M11873B001	2
9	Nut Metric Hex Serrated Flange	M00414B003	16
10	Retriever Reel* and Cable**	N20545-03	4
11	Cable Grommet*	R18450	8
12	Slotted Hexagonal Head Self Tapping Screws	K85149-03	16
13	Hose Clamp Half*	N18319-03	8
14	Hose and Cable Clamp	N18320-21	8
15	Hose Clamp Lock Ring	K85573-01	4
16	Cable End	K86055-01	4
17	Oval Fillister Head Cap Screw	K04585	4

Item	Description	Part Number	Quantity
18	Hexagonal Nut	K01941	4
19	Lockwashers, External and Internal Tooth	K50411-25	4
20	Encore Upper Housing Hose Retriever Retrofit Kit (M11754K00X) Installation Instructions	MDE-4959	1

**Available as spare part for future service repairs.*

***Available as spare part with part number K87218-02.*

Following table lists the parts included in the M11754K002 Kit (for 6-hose units).

Item	Description	Part Number	Quantity
1	Bracket, Support, Hose Retriever Housing	M11332B001	2
2	Assembly, Hose Retriever Housing (Welded)	M11798A001	2
3	Bracket, Hose Retriever Housing Cover	M11869B001	2
4	Screw Metric Thread Forming	M00417B001	12
5	Bracket, Cable Reel Hanger*	M11329B001	4
6	Bracket, Cable Reel Hanger*	M11873B001	4
7	Nut Metric Hexagonal Serrated Flange	M00414B003	20
8	Retriever Reel and Cable	N20545-03	6
9	Cable Grommet	R18450	8
10	Slotted Hexagonal Head Self Tapping Screws	K85149-03	16
11	Hose Clamp Half	N18319-03	12
12	Hose and Cable Clamp	N18320-21	12
13	Hose Clamp Lock Ring	K85573-01	6
14	Cable End	K86055-01	6
15	Oval Fillister Head Cap Screw	K04585	6
16	Hexagonal Nut	K01941	6
17	Lockwashers, External and Internal Tooth	K50411-25	6
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**Use the appropriate bracket based on the number of hoses being configured.*

Following table lists the parts included in the M11754K003 Kit (for 8-hose units).

Item	Description	Part Number	Quantity
1	Bracket, Support, Hose Retriever Housing	M11332B001	2
2	Assembly, Hose Retriever Housing (Welded)	M11798A001	2
3	Bracket, Hose Retriever Housing Cover	M11869B001	2
4	Screw Metric Thread Forming	M00417B001	12
5	Bracket, Cable Reel Hanger	M11329B001	4
6	Bracket, Cable Reel Hanger	M11873B001	4
7	Nut Metric Hexagonal Serrated Flange	M00414B003	24
8	Retriever Reel and Cable	N20545-03	8
9	Cable Grommet	R18450	8
10	Slotted Hexagonal Head Self Tapping Screws	K85149-03	16
11	Hose Clamp Half	N18319-03	16
12	Hose and Cable Clamp	N18320-21	16

Item	Description	Part Number	Quantity
13	Hose Clamp Lock Ring	K85573-01	8
14	Cable End	K86055-01	8
15	Oval Fillister Head Cap Screw	K04585	8
16	Hexagonal Nut	K01941	8
17	Lockwashers, External and Internal Tooth	K50411-25	8
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IMPORTANT INFORMATION

M11753K001 to M11753K006 Kits are the Brandview Canopy Adapter/Extension Kits that are ordered separately, if required and color matched to the pump.

Following table lists the parts included in the Brandview Canopy Adapter/Extension Kits (M11753K001 to M11753K006).

Item	Description	Part Number						Quantity
		M11753K001	M11753K002	M11753K003	M11753K004	M11753K005	M11753K006	
1	Bracket Connecting Canopy	M11330B001 (Unpainted)	M11330B002 (Stainless Steel Version)	M11330B001PA0 (White)	M11330B001PB0 (Black)	M11330B001PT5 (Ming Blue)	M11330B001PT6 Trade Show Silver)	2
2	Bracket, Canopy Support, Hose Retriever				M11328B001			2
3	Screw Hexagonal Head Serrated				M00415B010			6
4	Nut Metric Hexagonal Serrated Flange				M00414B003			10
5	Encore Upper Housing Hose Retriever Retrofit Kit (M11754K00X) Installation Instructions				MDE-4959			1

Related Documents

Document Number	Title	GOLD Library
MDE-3804	Encore/Eclipse® Start-Up/Service Manual	<ul style="list-style-type: none"> Encore and Eclipse Service Manual

Abbreviations and Acronyms

Term	Description
OSHA	Occupational Safety and Health Administration
STP	Submersible Turbine Pump

Hose Clamp Information

The hose clamps provided in this kit are for 3/4-inch hardwall non-vapor recovery hoses. If other size hoses are to be used, then additional hose clamps must be ordered separately.

Following table lists the hose clamp part numbers for reference.

Part Number	Description
M02045A001	5/8-inch Hardwall Non-vapor Hose
R19493-09	1-inch Hardwall Non-vapor Hose
R19493-08	3/4-inch Hardwall Vapor Assist Hose

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.

Important Safety Information

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.

Installing the Encore Upper Housing Hose Retriever Retrofit Kit

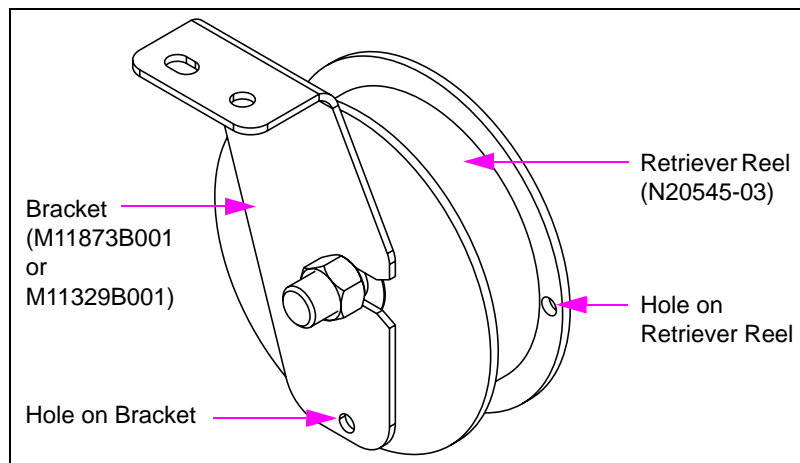
Before you begin, read and understand all safety information found in MDE-3804 Encore/Eclipse Start-Up/Service Manual.

Inform the Manager that the power will be disconnected and disconnect all power supplied to the unit at the breaker located in the building. Block off the unit from customers and barricade the work area.

To install the Encore Upper Housing Hose Retriever Retrofit Kit, proceed as follows:

- 1 Turn off power to the unit, unit lights, and Submersible Turbine Pumps (STPs). Use system circuit breakers. Multiple disconnects may be required. Follow OSHA Lock-out/Tag-out procedures.
- 2 Remove the canopy from the unit (if present) and retain any mounting hardware or fasteners for reuse.
- 3 Assemble the Retriever Reel (N20545-03) to the appropriate Bracket (M11873B001 or M11329B001) using the nut provided in the Retriever Reel Assembly (see [Figure 1](#)).

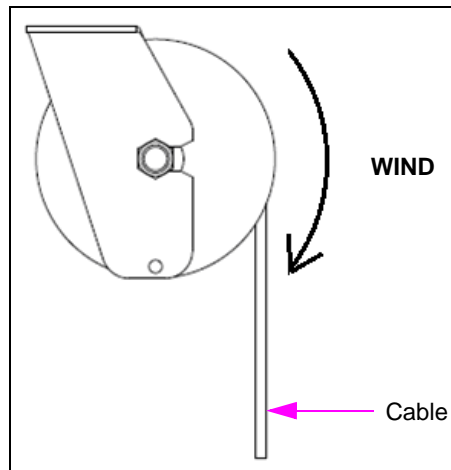
Figure 1: Retriever Reel and Bracket Assembly



- 4 With the cord wrapped around the retriever reel assembly, pre-tension the assembly by turning the Retriever Reel (N20545-03) five times in clockwise direction (see [Figure 2](#) on [page 8](#)). Allow approximately 5 inches (130 mm) of the cord to dangle free to aid in the next assembly process.
- 5 Align the Retriever Reel (N20545-03) and Bracket (M11873B001 or M11329B001). Insert a 1-inch length screw or a pin slightly smaller than the holes through the hole in the Retriever Reel (N20545-03) and Bracket (M11873B001 or M11329B001) to retain the pre-tensioning until the assembly of the retriever to the hose clamp is complete.

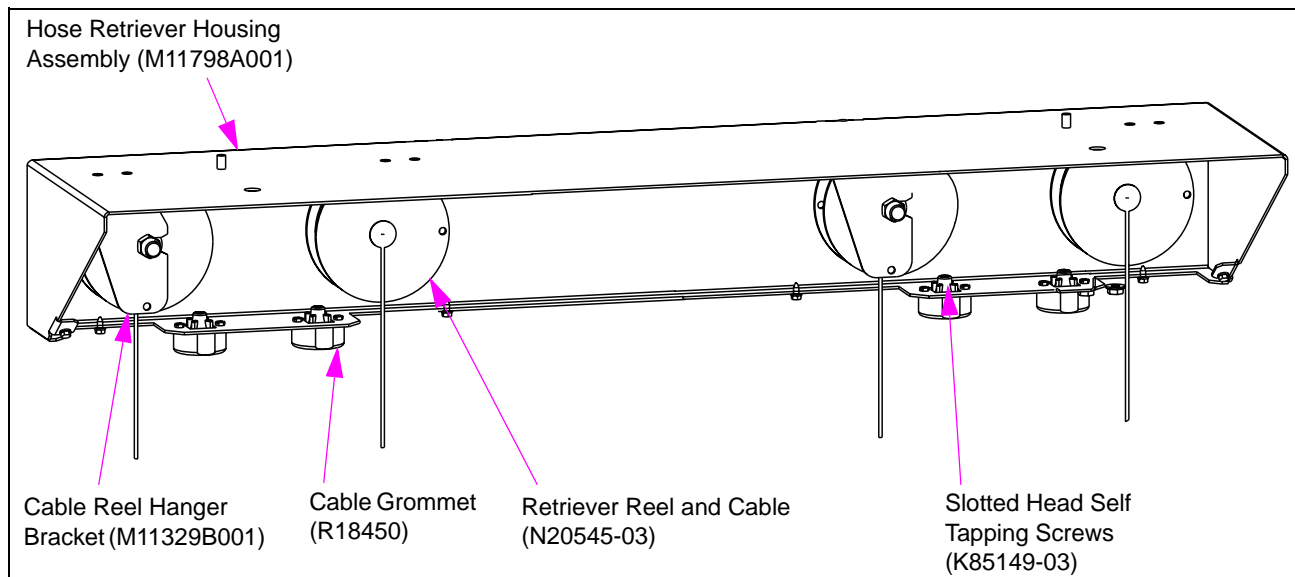
- 6 Repeat steps 3 to 5 on [page 7](#) for all the **retriever** reels.

Figure 2: Retriever Reel, Bracket, and Cable Assembly



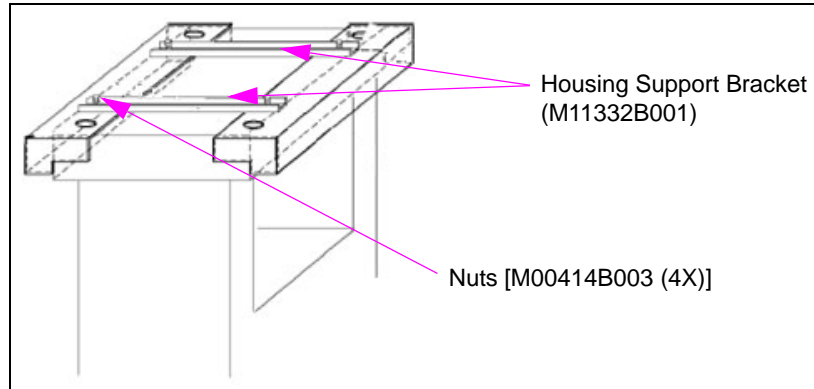
- 7 Install the four Cable Grommets (R18450) to the Hose Retriever Housing Assembly (M11798A001) using the two screws (K85149-03) per grommet provided in the kit.
Note: Regardless of the number of hoses and retrievers required per unit, four Cable Grommets (R18450) will be assembled to the Hose Retriever Housing Assembly (M11798A001).
- 8 Install the pre-assembled retriever reel and bracket assemblies onto the Hose Retriever Housing Assembly (M11798A001) using the nuts [M00414B003 (see [Figure 3](#))].
Note: [Figure 3](#) shows an assembly for a dispenser with four hoses for each side. Different dispenser models will have different hose quantities located in different locations depending on the model. Assemble one retriever assembly at each hose location on the dispenser.

Figure 3: Hose Retriever Housing Assembly (M11798A001)



- 9 Connect the two housings using the Housing Support Bracket (M11332B001) rails and four nuts (M00414B003) on each rail.

Figure 4: Connecting the Two Housings



- 10 Remove the bolts from the four lifting brackets on the Encore unit.
- 11 Install the assembled housing to the upper piping housing/cover of the Encore unit. If you are not installing the Canopy Connecting Bracket (M11330B00X), reinstall the brackets.
- 12 Pass the cable through the Cable Grommet (R18450) and small opening in the hose clamp lock ring (see [Figure 5](#) on [page 10](#)). Tightly tie a double square knot at the end of the cable and then slide the cable end into the hose clamp lock ring. Assemble the clamp to the hose (see [Figure 6](#) on [page 10](#)). Repeat the step separately for each hose.

Figure 5: Threading the Cable

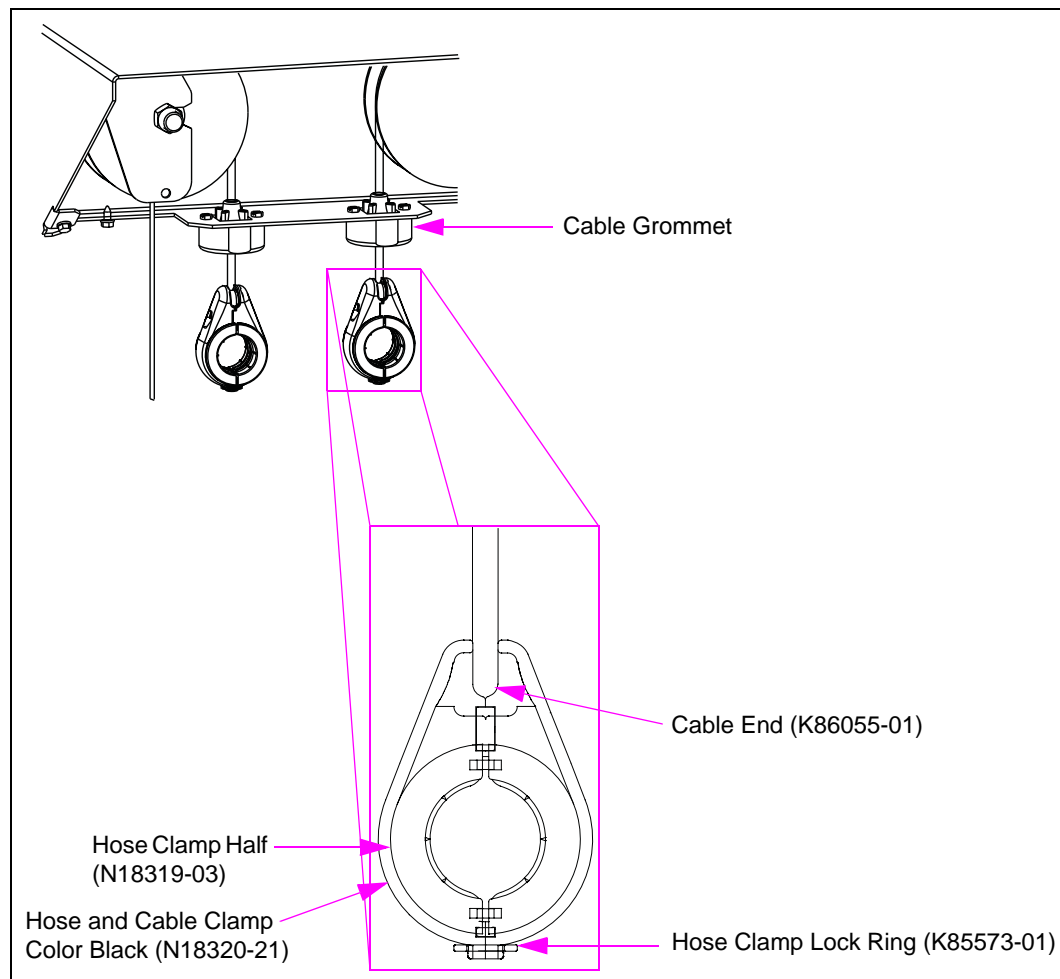
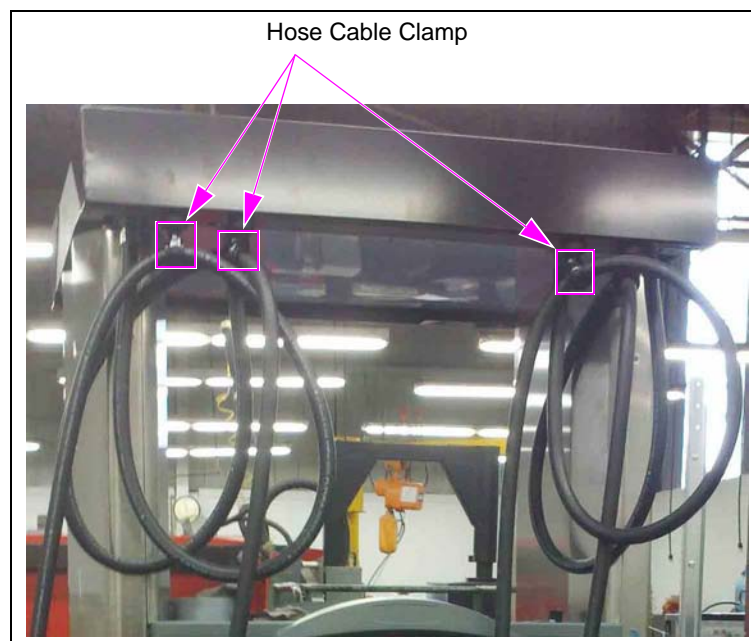


Figure 6: Clamp and Hose Assembly



- 13** Ensure that you locate the clamp appropriately on the cable to make a consistent loop on all sides.

Notes: 1) For standard hose, locate the clamp at 55 inches on the hose cable from the retriever assembly grommet. For vapor hose, locate the clamp at 51 inches on the hose cable from the retriever assembly.

2) For longer or shorter hoses, locate the clamp consistently to ensure a reasonable loop and protect the hose from hitting the ground.

- 14** Carefully remove the 1-inch screw or pin from the Retriever Reel (N20545-03), that was inserted in step 5 on [page 7](#).

Note: Ensure that the hose retriever pulls the hose clamp up to the grommet. Excessively long hoses may require more pre-tension turns of the reel so that the hose will retract properly.

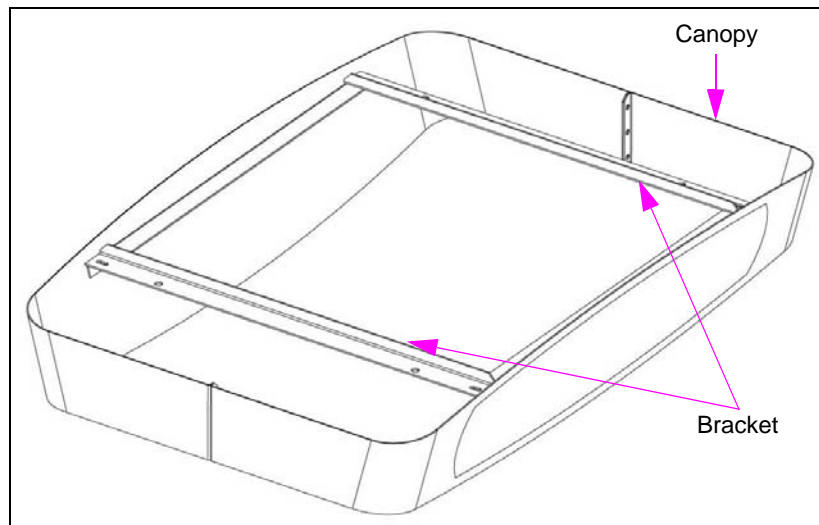
- 15** Assemble the hose retriever housing cover bracket onto the housing using the six screws (M00417B001). Repeat this step on the other side of the unit.

Installing the Canopy Connecting Bracket (M11330B00X)

To install the Canopy Connecting Bracket (M11330B00X), proceed as follows:

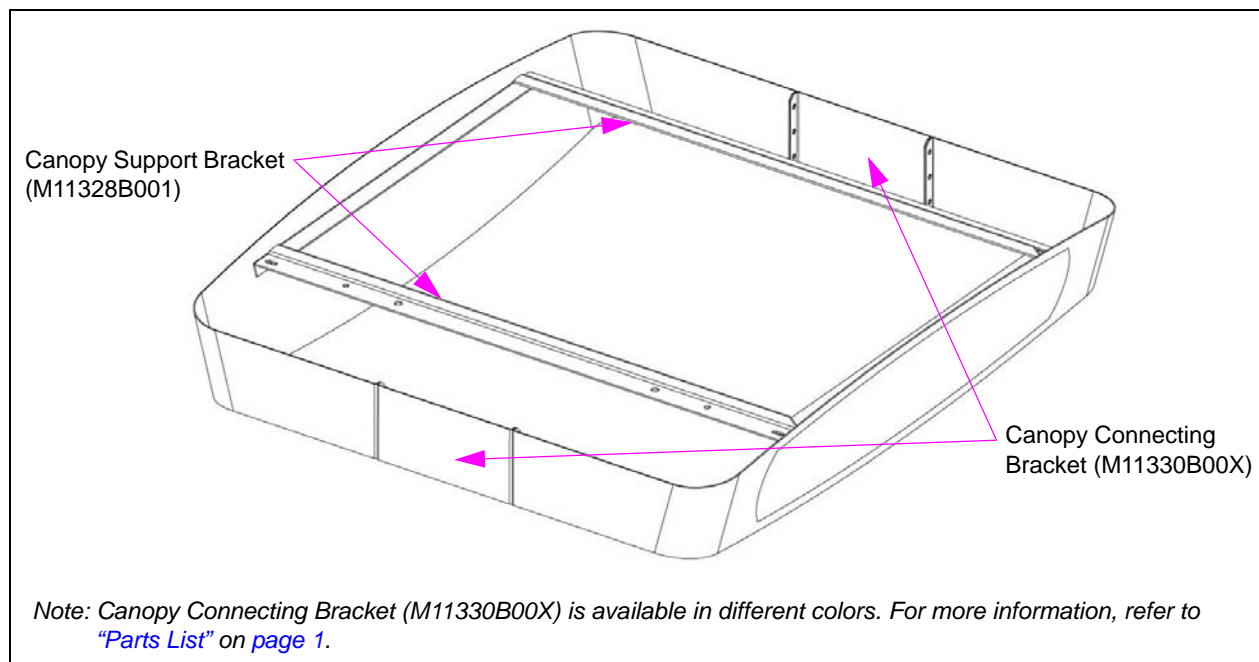
- 1** Remove the existing brackets and retain the screws.

Figure 7: Existing Canopy



- 2 Attach the Canopy Connecting Bracket (M11330B00X) and Canopy Support Bracket (M11328B001) using the screws removed in step 1 on page 7 and screws provided in the kit (see Figure 8).

Figure 8: Installed Canopy Connecting Bracket (M11330B00X)



- 3 After installing the canopy, insert the lifting bracket.

The installation of the Canopy Connecting Bracket (M11330B00X) is now complete.

The installation of the Upper Housing Hose Retriever Retrofit Kit is now complete.

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