



File MH1941

Vol 28

Auth. Page 1

Issued: 2000-06-12

Revised: 2012-04-04

FOLLOW-UP SERVICE PROCEDURE  
(TYPE R)FLAMMABLE LIQUID DISPENSING DEVICES, POWER OPERATED  
(EWTV, EWTV7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 65609 (Party Site)  
GILBARCO INC  
(347299-001) 7300 W FRIENDLY AVE  
PO BOX 22087  
GREENSBORO NC 27420Listee/Classified Co.: 65609 (Party Site)  
SAME AS APPLICANT  
(347299-001)

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus> and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: <http://www.ul.com/responsibilities>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at <http://www.ul.com/global/eng/pages/corporate/contactus>, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://www.ul.com/contracts/Terms-After-12-31-2011>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

File MH1941

Vol 28

Auth. Page 2

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It is the responsibility of the Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

William R. Carney  
Director  
North American Certification Program

DESCRIPTION

PRODUCT COVERED:

Power operated flammable liquid dispensing device.

\* USL, CNL Self Contained - Series Encore 300, Encore 500, Encore 550, Encore 700, Encore 800, and Encore 900, may be suffixed by S (except for Encore 300, Encore 800, and Encore 900).

- Model N followed by C, followed 0, 1, 2, or 3.
- Model N followed by G, followed by 2, 3, 4 or 5.
- Model N followed by J, followed by 1 or 3.
- Model N followed by L or N, followed by 4, 5, 6, or 7.

\* USL, CNL Remote Control - Series Encore 300, Encore 500, Encore 550, Encore 700, Encore 800, and Encore 900, may be suffixed by S (except for Encore 300, Encore 800, and Encore 900).

- Model N followed by A, followed by 0, 1, 2, or 3.
- Model N followed by G, followed by 0, or 1.
- Model N followed by J, followed by 0, 2, 4, 5, or 6.
- \* Model N followed by L or N, followed by 0, 1, 2, or 3.
- \* Model N followed by F, followed by 0, 1, 2, 4, 6, 7, or 8.

USL, CNL Remote Control - Series Encore 300, Encore 500 Ultra-Hi, Encore 800, and Encore 900, may be suffixed by S (except for Encore 300, Encore 800, and Encore 900).

Model N followed by P, followed by 3, 4, 5, 6, or 8.

Note 1 - All models have been qualified for use with interchangeable service station type hose nozzle valves.

Note 2 - Models may have one or more of the following options as explicitly marked on the nameplate:

- Vapor V ac
- Balance Vapor
- ATC
- Lever Activate
- Push to start
- CRIND
- Bar Code Scanner
- Pump Preset
- U.S. Gallon Tots
- Metric Tots
- Imp Gal Tots

(continued)

## MODEL DESIGNATION SYSTEM:

Only those models specifically identified under "Product Covered" are Listed.

	N	A0	
	1	2	
Code Position	Code		Description
1. Grade Name	N	Encore	
2. Grade Series	A0		Multi-hose, Remote Control, 1 Grade
	A1		Multi-hose, Remote Control, 2 grade
	A2		Multi-hose, Remote Control, 3 grade
*	A3		Multi-hose, Remote Control, 4 grade
	C0		Multi-hose, Self Contained, 1 grade
	C1		Multi-hose, Self Contained, 2 grade
	C2		Multi-hose, Self Contained, 3 grade
	C3		Multi-hose, Self Contained, 4 grade
	G0		Single hose, Remote Control, 3 grade
	G1		Single hose, Remote Control, 3+1 grade
	G2		Single hose, Self Contained, 3 grade
	G3		Single hose, Self Contained, 3+1 grade
	G4		Single Hose, Self Contained, 2 grade
	G5		Single Hose, Self Contained, 2 grade
*	F0		Multi-hose Variable Blender, Remote, 5 Grade (2 Hose)
*	F1		Multi-hose Variable Blender, Remote, 5 Grade (3 Hose)
	F2		Multi-hose Variable Blender, Remote, 5 grade (3-1+1, 3 hose)
	F4		Multi-hose Variable Blender, Remote, 5 Grade (3-1+1, 3 Hose)
	F6		Multi-hose Variable Blender, Remote, 6 Grade (3-2+1, 4 hose)
	F7		Multi-hose Variable Blender, Remote, 6 Grade (4-1+1, 3 hose)
	F8		Multi-hose Variable Blender, Remote, 5 grade (3-1-1, 3 Hose)
	J0		Multi-hose Blender, Remote Control, 3 grade
	J1		Multi-hose Blender, Self Contained, 3 grade
	J2		Multi-hose Blender, Remote Control, 3+1 grade
	J3		Multi-hose Blender, Self Contained, 4 grade
	J4		Multi-hose Blender, Remote Control, 3+2 grade
	J5		Multi-hose Blender, Remote Control, 5+1 grade
	J6		Multi-hose Blender, Remote Control, 4+1 grade

Continued

L0 X+1 Blender, Remote Control, 2+1 grade  
L1 X+1 Blender, Remote Control, 3+1 grade  
L2 X+1 Blender, Remote Control, 4+1 grade  
L3 X+1 Blender, Remote Control, 3+1+1 grade  
L4 X+1 Blender, Self Contained, 2+1 grade  
L5 X+1 Blender, Self Contained, 3+1 grade  
L6 X+1 Blender, Self Contained, 4+1 grade  
L7 X+1 Blender, Self Contained, 5+1 grade

\*

N0 X+0 Blender, Remote Control, 2+0 grade  
N1 X+0 Blender, Remote Control, 3+0 grade  
N2 X+0 Blender, Remote Control, 4+0 grade  
N3 X+0 Blender, Remote Control, 5+0 grade  
N4 X+0 Blender, Self Contained, 2+0 grade  
N5 X+0 Blender, Self Contained, 3+0 grade  
N6 X+0 Blender, Self Contained, 4+0 grade  
N7 X+0 Blender, Self Contained, 5+0 grade

P3 Ultra Hi Master  
P4 Ultra Hi Combo  
P5 Ultra Hi Satellite  
P6 Single Sided Ultra Hi Dual Product Master  
P8 Single Sided Ultra Hi Dual Product Satellite

## ENCORE SERIES DISPENSER - FIG. 1

1. Lower Hydraulic Assembly - See Fig. 2, 2C, or 2D(550) for remote control models, Fig. 2A for Ultra Hi Combo models, Fig. 2B for Ultra Hi master, and Fig. 3, 3A(550), or 3B for self-contained models.

Alternate - For Encore 500 and 550 Series self contained models, construction shown in Fig. 2F may be used.

Alternate - See Fig. 44 for dispensers with E85 option and Models NF0, NF1, NF2, NF4, NF6, NF7, NF8, NJ4, NJ5, and NJ6, or Fig. 44A for dispensers with E25 option. Remote Control dispensers with E25 or E85 Compatible Hydraulics option may be intended for use solely for E25 or E85 or may include both gasoline and E25 or E85 fluid paths. If both gasoline and E25 or E85 fluid paths are present, they must be completely independent of one another and the E25 or E85 fluid path will be marked with an adhesive backed label stating "This inlet suitable for use with E85" (or E25 as appropriate) as detailed in "Marking" above. The hydraulic components of the E25 or E85 compatible dispenser or the E25 or E85 compatible side of a split-type dispenser may only be those described in Fig. 44 (E85) or 44A (E25) and the E25 or E85 side will not include components associated with vapor recovery. If a split-type dispenser construction is utilized, the non-E85/E25 side of the dispenser may incorporate any of the lower hydraulics constructions detailed in this Report.

Alternate - For dispensers with B20 option, see Fig. 44B for standard dispensers, Fig. 44C and 44D for ultra hi combo and master hydraulics, and Fig. 45E for ultra hi satellite hydraulics. Remote Control dispensers with B20 compatible Hydraulics option may be intended for use solely for B20 or may include both gasoline and B20 fluid paths. If both gasoline and E25 or E85 fluid paths are present, they must be completely independent of one another and the B20 fluid path will be marked with an adhesive backed label stating "This inlet suitable for use with B20" as detailed in the "Marking" section. The hydraulic components of the B20 compatible dispenser or the B20 compatible side of a split-type dispenser may only be those described in Fig. 44B (Standard), 44C and 44D (Ultra Hi Master and Combo), and Fig. 44E (Ultra Hi Satellite) and the B20 side will not include components associated with vapor recovery. If a split-type dispenser construction is utilized, the non-B20 side of the dispenser may incorporate any of the lower hydraulics constructions detailed in this Report.

## B20 HYDRAULICS, ULTRA-HI COMBO AND ULTRA-HI MASTER - FIGS. 44C AND 44D

1. Valve - Two provided. Listed, manufactured by Parker-Hannifin Corp., Skinner Valve Div., Type XLG201620CS. Valve is supplied with a length of conduit with a vapor-explosion seal which runs from the valve and up through the air gap.
2. Filter Adapter - Optional. R/C (VXYV2) manufactured by Central Illinois Mfg. Co., Part No. 50136.
3. Filter - Optional. R/C (VXYV2) manufactured by Central Illinois Mfg. Co., Part No. 800-30.
4. Meter - One provided for Ultra-Hi combo model and two provided for Ultra-Hi master model. R/C (PLRZ2), manufactured by Liquid Controls Corp., Series M5-1, Part No. P9560. Provided with an inlet flange which changes inlet from flange to NPT. Gilbarco adds synthetic rubber gasket, Gilbarco Part No. Q10068-24 R/C (JMLU2) manufactured by Parco, Compound 0228-70, between the meter and the inlet flange. The meter is secured to the support bracket with bolts, nuts and washers.  
  
Alternate - Provided only when Pulser as shown in FIG. 2A, Item 5, is provided. Same as above, except meter is Listed, manufactured by Liquid Controls, Series M5-1, Part No. P96XX (where XX is any 2 digits except 59, 60, or 61). Provided without a pulser.
5. Y-Adapter - Machined aluminum, nickel plated, see ILL. 218 (PN M12553B001) for details. Threads into valve as shown.
6. Meter Adapter - Two provided. Machined aluminum, see ILL. 219 (PN M12601B001) for details. Secured to meter by four bolts. Provided with a synthetic rubber o-ring between the adapter and meter, Gilbarco Part No. Q10068-24. O-ring is constructed of R/C (JMLU2) manufactured by Parco, Compound 0228-70.
7. Strainer - One provided per meter. Schedule 40 piping with 30 mesh wire filter element.
8. Piping Tee - Schedule 40 piping fitting, see ILL. 220 for details.
9. Tubing - All tubing for B20 handling portions of the dispenser is copper or galvanized steel tubing with parflange connections as detailed in Vol. 1Z.
10. Outlet Casting - Same as Fig. 44B, Item 7.

## B20 HYDRAULICS, ULTRA-HI SATELLITE - FIG. 44E

1. Valve - Two provided. R/C (YTSX2) manufactured by Parker-Hannifin Corp., Skinner Valve Div., Type XLG201620CS. Valve is supplied with a length of conduit with a vapor-explosion seal which runs from the valve up through the air gap.
2. Filter Adapter - Optional. Same as Fig. 26, Item 2.
3. Filter - Optional. Same as Fig. 26, Item 3.
4. Strainer - Optional. Same as Fig. 26, Item 7.
5. Y-Adapter - Same as Fig. 26, Item 5.

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20180918-MH1941  
**Report Reference** MH1941-20000612  
**Issue Date** 2018-SEPTEMBER-18

**Issued to:** GILBARCO INC  
7300 W FRIENDLY AVE  
PO BOX 22087  
GREENSBORO NC 27420

**This is to certify that representative samples of** FLAMMABLE LIQUID DISPENSING DEVICES, POWER OPERATED

See Addendum Page for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 87, Power-Operated Dispensing Devices For Petroleum Products  
UL 1238, Control Equipment For Use With Flammable Liquid Dispensing Devices

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20180918-MH1941  
**Report Reference** MH1941-20000612  
**Issue Date** 2018-SEPTEMBER-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Power operated flammable liquid dispensing device.

USL, CNL Self Contained – Series Encore 300, Encore 500, Encore 550, Encore 700, Encore 800, and Encore 900, may be suffixed by S (except for Encore 300 , Encore 800, and Encore 900).

Model N followed by C, followed 0, 1, 2, or 3.  
 Model N followed by G, followed by 2, 3, 4 or 5.  
 Model N followed by J, followed by 1 or 3.  
 Model N followed by L or N, followed by 4, 5, 6, or 7.

USL, CNL Remote Control – Series Encore 300, Encore 500, Encore 550, Encore 700, Encore 800, and Encore 900, may be suffixed by S (except for Encore 300, Encore 800, and Encore 900).

Model N followed by A, followed by 0, 1, 2, or 3.  
 Model N followed by G, followed by 0, or 1.  
 Model N followed by J, followed by 0, 2, 4, 5, or 6.  
 Model N followed by L or N, followed by 0, 1, 2, or 3.  
 Model N followed by F, followed by 0, 1, 4, or 8.

USL, CNL Remote Control – Series Encore 300, Encore 500 Ultra-Hi, Encore 800, and Encore 900, may be suffixed by S (except for Encore 300, Encore 800, and Encore 900).

Model N followed by P, followed by 3, 4, 5, 6, or 8.

Note 1 - All models have been qualified for use with interchangeable service station type hose nozzle valves.

Note 2 - Models may have one or more of the following options as explicitly marked on the nameplate:

Vapor V ac  
 Balance Vapor  
 ATC  
 Lever Activate  
 Push to start  
 CRIND  
 Bar Code Scanner  
 Pump Preset  
 U.S. Gallon Tots  
 Metric Tots  
 Imp Gal Tots  
 Canopy Light Conduit



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20180918-MH1941  
**Report Reference** MH1941-20000612  
**Issue Date** 2018-SEPTEMBER-18

5.7 Mono  
 Printer  
 Pro Pump Preset  
 Pump Stop  
 TRIND (only available on 120 V dispensers)  
 Speaker  
 Hose Retriever  
 Cash Acceptor (USL Only, not provided for Encore 800 and 900 Series)  
 Call Button  
 Single Line CRIND (Encore 300 Series Only)  
   ISD Flowmeter  
   ORVR Valve  
   VDI (Visible Discharge Indicator)  
   Smart CRIND  
   Healy Vapor  
   EMV  
   Guardian (Encore 300 and 500, Remote Control Only)  
   EPP  
 All Listen Intercom  
 VaporTek (USL Only)

E85 Compatible Hydraulics (USL, Remote Control Only) - The blending option provided on these dispensers is intended for the blending of Gasoline/ethanol blends designated as E85 with gasoline or gasohol (E10 maximum) to achieve an intermediate gasoline/ethanol blend.

Note to UL field representative: Only items specifically indicated in Fig. 44 may be used for hydraulics marked as suitable for E85.

E25 Compatible Hydraulics (USL, Remote Control Only) – Blending option is not available for E25 dispensers. Note to UL field representative: Only items specifically indicated in Fig. 44A may be used for hydraulics marked as suitable for E25.

B20 Compatible Hydraulics (USL, Remote Control Only) – Blending option is not available for B20 dispensers. Note to UL field representative: Only items specifically indicated in Fig. 44B, -C, -D or -E may be used for hydraulics marked as suitable for B20.



Bruce Mahrenholz, Director North American Certification Program

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