

MDE-4226F Encore®/Eclipse® Installation Checklist (Form A) - August 2017



Site and Installer Information

SITE INFORMATION	INSTALLER INFORMATION
Unit Serial Number:	Company Name:
Site Name/Site ID:	Company Address:
Site Address:	

INSTRUCTIONS: Complete this checklist for each pump/dispenser. Information regarding "Station Electrical" must be completed on only one pump/dispenser form. After completing the form, leave the original in the pump/dispenser cabinet, away from the wiring or circuit boards, Keep the copy for your records.

IMPORTANT NOTE: This checklist does not include all the requirements for the safe or proper installation of a pump/dispenser. However, this checklist includes certain checks for some of the most important items and items that are occasionally ignored during installation. The installer must read and follow the installation manual completely for equipment installation.

Individual Pump/Dispenser Hydraulic/Mechanical-related

Item	Procedure	Check if OK/Complete
1	Where required, shear valves are installed as per the manufacturer instructions.	
2	Flexible pipe is not used within the dispenser. Flexible pipe that meets local and state codes can be used below the dispenser. ¹	
3	Pumps used only with above-ground tanks: Vacuum-actuated pressure regulating valve is installed at the inlet for each product. ¹	
4	Pumps with only in-ground tanks: Check valve is installed for each product inlet. ¹	
5	Hose breakaways are installed as per code and manufacturer recommendations.	
6	After the dispenser has dispensed Diesel Exhaust Fluid (DEF), power to the dispenser must be left on [when the outside temperature drops below 20 °F (-6.67 °C) and the unit is not being used]. ²	
7	All hanging hardware is Underwriters' Laboratories (UL®) or equivalently listed, CARB-certified ¹ (where required) and checked for continuity. ¹	
8	Unit is anchored to the island or skid tank as per installation instructions.	
9	Vapor recovery piping has no traps or sags in dispenser sump. ¹	
10	Correct nozzles, piping, and brand panels are used for each grade.	
11	All code, regulatory agency or customer-specified safety warning signs, labels, or decals have been installed.	
12	Hose lengths beyond standard lengths are not used without special retrievers. No more than 6 inches of the hose touches the ground with the nozzle in the nozzle boot for vacuum-assisted vapor recovery hoses. ¹ Vapor balance hoses do not touch the ground. ¹	
13	Air has been purged from the lines using shear valve ¹ for dispensers and nozzle for pumps. For DEF dispensers, purge at the nozzle. ²	
14	Piping has been secured to the lower piping brace as per the installation instructions (Encore® only). ¹	
15	The unit and plumbing are checked for leaks. There are no leaks at the hanging hardware.	
16	If converting directly from gasoline to ethanol blends or from diesel to gasoline, tanks and lines have been cleaned in accordance with "Important Considerations When Changing Fuel Types" found in <i>MDE-3985 Encore Installation Manual</i> . ¹	

¹Not applicable to DEF units.
²Applicable only to DEF units.

Individual Pump/Dispenser Electrical-related

1	Units without factory-installed or factory kit Junction Boxes (J-boxes) only: Conduit into the electronic cabinet is potted as per the installation instructions and no unfilled openings exist between the electronics cabinet and the lower piping area.	
2	Conduit at the base of the unit is potted as per local, state and national codes, and as per <i>MDE-3985 Encore Installation Manual</i> .	
3	Conduit(s) to the electronic cabinet for non J-box equipped units is secured to the lower brace and potted as per <i>MDE-3985 Encore Installation Manual</i> .	
4	Field-installed J-box is secured to the lower frame.	
5	Twisted-pair (not shielded) wire is used for two-wire communication for newly wired systems.	
6	All wiring to the dispenser is stranded copper of gauge and insulation type specified in the installation instructions.	
7	Ground wires are properly connected at the pump/dispenser.	
8	Contractor supplied conduit and J-box are approved for hazardous locations involved and properly sized for wiring and number of connections as per the codes.	
9	All J-box covers are replaced, all bolts used are tightened, and all openings are plugged.	
10	All speaker, intercom, and other class 2 wiring are located in separate conduits and J-boxes from the power wiring.	

Station Electrical (Check This Section Only Once per Site)

1	Conduits to pumps/dispensers are potted as per the code requirement at the station building.	
2	Emergency power cutoff is installed as per code to remove all power from the fueling equipment in case of an emergency.	
3	Dispensers only: Submersible Turbine Pump (STP) isolation relays are used for all dispensers.	
4	Grounds to the dispensers are properly wired as per the codes and installation instructions.	
5	Properly sized circuit breakers for the units and unit options are involved.	
6	All pump/dispenser wiring is properly spaced and isolated from the wiring to electrically noisy devices as per <i>MDE-3985 Encore Installation Manual</i> .	
7	Power wiring to the pumps/dispensers are not shared by other devices.	
8	All circuit breakers to the pumps/dispensers are clearly labeled and readily accessible.	
9	All Distribution Boxes (D-Boxes) are clearly labeled showing the pump/dispenser connections.	
10	All pumps/dispensers are wired to the same phase of electrical power.	
11	New site wiring to pumps/dispensers was Megger®-tested. Old site wiring was continuity-tested and short-tested with a digital meter.	

Required Signature

Installer Name (Print):	Signature:	Date:
Technician Number (if applicable):		

NOTE: This is a two-part form. Place the top copy (original) in the pump/dispenser cabinet, away from the wiring and circuit boards. Keep the bottom copy for your records.