

Instructions for commissioning the Mahle BFX-10 for use with Lincoln Industrial 905SF metered dispensing gun and 8 gal Brake Fluid Drum

Additional Documents required for device setup: (found in TIS / Tools & Equipment / Equipment Manuals)

- 1) Mahle FluidPRO BFX-10 User Manual
- 2) Lincoln Model 905SF Installation and Maintenance Guide

Converting the BFX-10 for dispensing purposes

To connect the BFX-10 to an 8 gallon(30L) drum, the fluid feed lines will have to be transitioned from the stock Universal rubber cone adapter(pre-installed) to that of the included hoses with the quick connect fittings (reference Part # 028 80552 00 x 2 used per unit) that interfaces with the included 30L siphon tubes (reference Part # 026 80796 00). The new quick connect fluid supply lines can be cut to desired length based on your preferred operating distance between the BFX-10 and the 30L drum. (NOTE: the shorter the supply hoses the better to prevent air in the lines and allow quicker/easier purging of the system. Suggested Length for optimal performance is 3 feet.)



Replacing the standard Universal Cone adapter with the new Quick Disconnect Supply lines

Remove the factory installed fluid supply lines(with cone adapter) attached to the top of the unit shown below by either prying or cutting the crimp clamps off.



The new quick connection style fluid supply lines can be cut to desired length. NOTE: a longer run of hoses has the potential to lead to increased service and unit bleed times.

Connect 2x new quick connect fluid supply lines to male connection points on top of BFX-10 unit using the new Oeticker style ear clamps included with the new fluid supply lines. Securely crimp the new fluid lines to the male barb connections on the BFX-10.



Assembling the 905SF Metering Gun

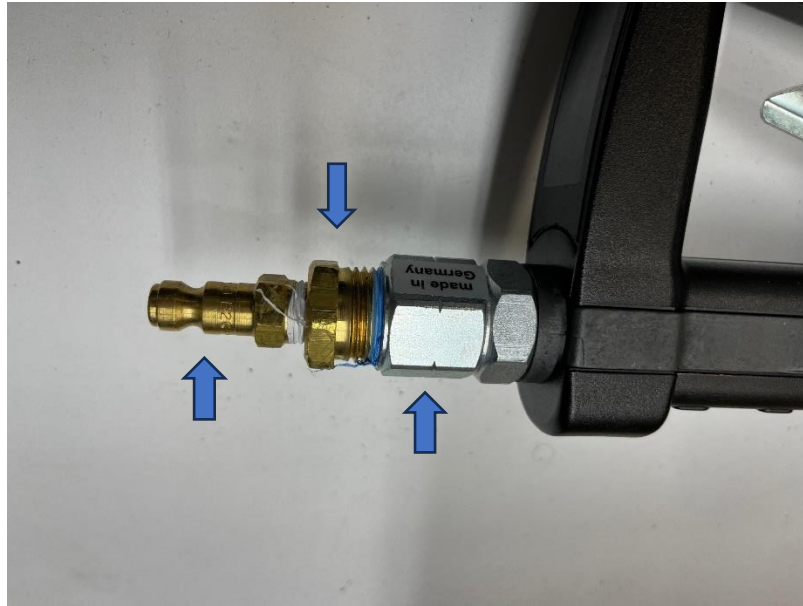
Install batteries as instructed in the Lincoln 905SF Installation and Maintenance Guide. Next, remove the plastic threaded caps from the gun, apply Teflon tape OR Loctite 243 to the threads of the flexible nozzle and screw nozzle into the top of the gun – hand tighten with open-end wrench.



Next, pre-assemble the 3 adapter pieces in a vice before screwing the complete assembly into the bottom of the gun.(see picture below for proper assembly order) The brass male quick connect fitting will need either Loctite 243 or Teflon tape for sealing. Next is the brass adapter between the silver screen filter and the male quick connect fitting. This will need either Loctite 243 or Teflon tape for sealing as well. And

finally, the silver filter comes with an o-ring to seal between the gun handle and the filter. *It is still advised to apply a small bit of Loctite 243 to the male threads of the filter.

Install the silver filter/brass fitting assembly into the bottom of the gun as shown below – hand tighten using an open-end wrench.



Configuring the proper Unit of Measure & Scale Factor in the 905SF gun

The gun is delivered from the factory with a default unit of measure (either PT, QT, GAL or L) and a metering scale factor configured for 10W motor oil. **Before use of the gun with brake fluid, the proper unit of measure and scale factor needs to be adjusted and set in the gun.** In the Lincoln Industrial 905SF Installation and Maintenance Guide refer to pages 9 and 10 – Change Factory Settings – for the steps needed make these adjustments. You need to set the following:

- 1) Unit of Measure – L
- 2) Scale Factor – **1.0040**

Once these settings are saved and confirmed in the gun, you are ready to Prime the gun together with the BFX-10.

Installing Siphon Tubes into 8 Gallon Drum

Position drum where you want to dispense next to the BFX-10. Remove seal from large cap on top of drum and open the cap. Insert the Siphon Tubes and screw down till hand tight. Make sure the tubes are fully inserted into the cap/drum so that they are touching the bottom of the drum.



Priming BFX-10 and Lincoln Industrial 905SF dispensing gun

NOTE: as stated previously, the desired hose length for the 2x retrofitted fluid supply lines with quick connections can effect unit and dispenser priming time.

For initial commissioning, first review section 2.6 in the Mahle BFX-10 user manual for general machine commissioning settings and procedures.

1. Before priming, insure the BFX-10 is properly connected to the 30L container and the 905SF dispenser gun is connected to the dispensing connection via quick connect coupler, powered on and set to Manual mode.
2. Open the brass nozzle a quarter turn by twisting it counterclockwise. **IMPORTANT:** do NOT open the nozzle completely. Only open it slightly to maintain proper back pressure to keep the BFX-10 primed/the pump active during dispensing.



3. In order to properly bleed the unit and dispenser, ensure that the gun trigger is compressed at all times while priming, while the nozzle is being held over a collection bottle.
4. Press main exchange power switch to ON position on the BFX-10.
5. Then press and hold the START button to ON position on the BFX-10.
6. Hold dispensing gun over the waste fluid bottle until brake fluid is dispensed without any air bubbles.
7. Once brake fluid is dispensed without air bubbles, release the dispenser trigger while pump is running and press main exchange power switch to OFF position to retain prime within the unit.
 - a. Once pressure has been built within system, inspect connection points on top of the BFX-10 unit where the new fluid supply connection hoses were retrofitted as well as the top and bottom gun connections for any leaks.

Dispensing procedure

After the initial commissioning and bleeding of the BFX-10 unit itself, once you are ready to proceed with dispensing utilizing the following procedure:

1. Insure the 905SF is attached properly to the fluid dispensing line of the BFX-10.
2. Power on the BFX-10 brake fluid exchange unit with the main exchange power switch.
3. Press the START button and hold it until the pressure has reached at least 0.5 bar
 - a. When dispensing with the 905SF, a higher pressure may be needed to move the brake fluid at an adequate flow rate, adjusting the pressure via the knob will assist in dialing in the desired pressure.