

Two new special tools that are now available make servicing your M198 howitzer a whole lot easier. One is a nitrogen intensifier and the other is an oil transfer system.

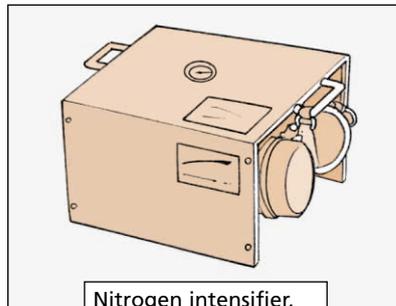
Nitrogen Intensifier

The operating pressure for the M198's equilibrators is 1,750-1,800 psi. Elevating the tube with pressure less than 1,750 psi is difficult, but it's next to impossible with pressure under 1,500 psi.

That means when it's time to charge the equilibrators, you have to use a nitrogen cylinder with at least 1,500 psi. When the cylinder pressure drops below that reading, your unit must pay to have it recharged.

You can save time and money by using

a nitrogen intensifier, NSN 1025-01-473-8886. When it's hooked up to a partially-used cylinder, the intensifier draws out most of the remaining gas and increases it to the proper psi.



Nitrogen intensifier, NSN 1025-01-473-8886

Once the pressure reaches 150 psi or less, the cylinder has to be recharged.

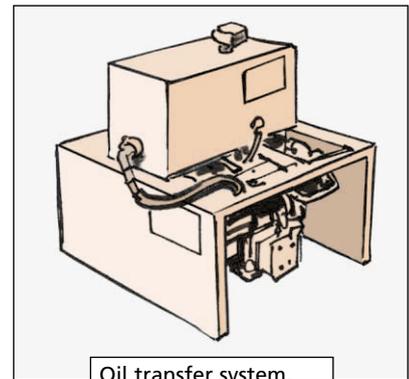
Oil Transfer System

The M3 oil pump is currently used for filling and purging air from the M45 recoil mechanism. The M3 holds about 1 quart of hydraulic fluid. The M45 recoil mechanism holds about 6 gallons.

It takes around 70+ pumps of the M3's handle to move the oil reserve indicator from one number to the next. So completely filling and purging the recoil takes a lot of time and wears out quite a few arms.

The new oil transfer system, NSN 1025-01-473-7710, puts a stop to that. It has a 5-gal reservoir and an electric pump that makes filling and purging the recoil a snap.

The system self-purges all air from its lines before pumping oil and includes a



Oil transfer system, NSN 1025-01-473-7710

special filter that screens out all contamination. Make a note until both new tools can be added to Fig C-75 of TM 9-1025-211-20&P.