



NewArc™ Wheel Straightener

Hydraulic Component Setup Choices

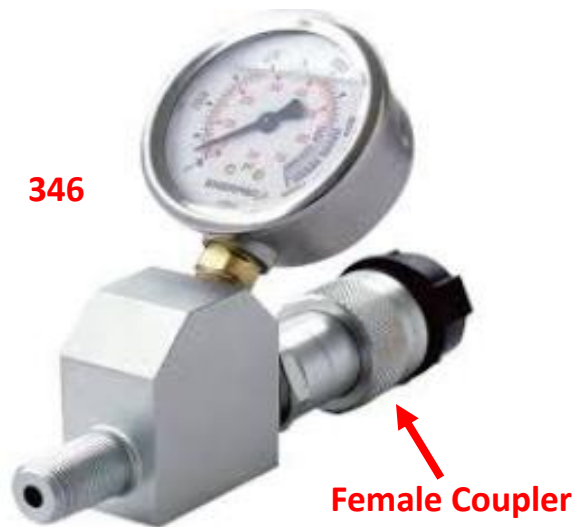
The photos on the following pages explain how the Enerpac hydraulic components can be set up to suit your needs. You have a choice of disassembling the components for storage or you can set the machine up in a “Ready Storage” configuration. Assembly and setup procedures differ with each choice illustrated. Bleeding the system is also explained.

HYDRAULIC COMPONENT ASSEMBLY

Some of the hydraulic components are pre-assembled. Others require assembly after unpacking your machine. Depending on how you would like to store your machine, there are two different setup configurations. The following pages contain brief explanations that will assist in what should be simple and straightforward assembly procedures.

NewArc™ part numbers are shown both in the text and on the photos in **red**. For a complete pictorial view of component relationships, please refer to the exploded view drawings on the Technical Pages of the NewArc™ website.

COUPLING CHOICE



All Enerpac hydraulic cylinders (Rams) have female couplers and the hydraulic hoses have male couplers. This makes for easy Ram changes. The same type female coupler is also included on the GA45GC Gauge Adaptor Manifold (**346**). This enables the user to disconnect the hose from the manifold end as well. Some people might want to store the components disassembled. The components can be stowed away more efficiently if disconnected but each time it is done, a small amount of oil is spilled, requiring occasional oil level checking and reservoir replenishing.

Frequent Ram changes are common but it is rarely necessary to disconnect the hose from the pump end. Therefore, we recommend threading one end of the hose directly into the manifold for a permanent connection. Then simply store the Rams and hose assembly on the brackets attached to the frame. The following slides show the assembly steps we recommend.

STEP ONE



STEP ONE

Remove the female Hose Coupler from the Energac GA45GC Gauge Adaptor Manifold. This enables you to make a permanent connection between the hose and the manifold.

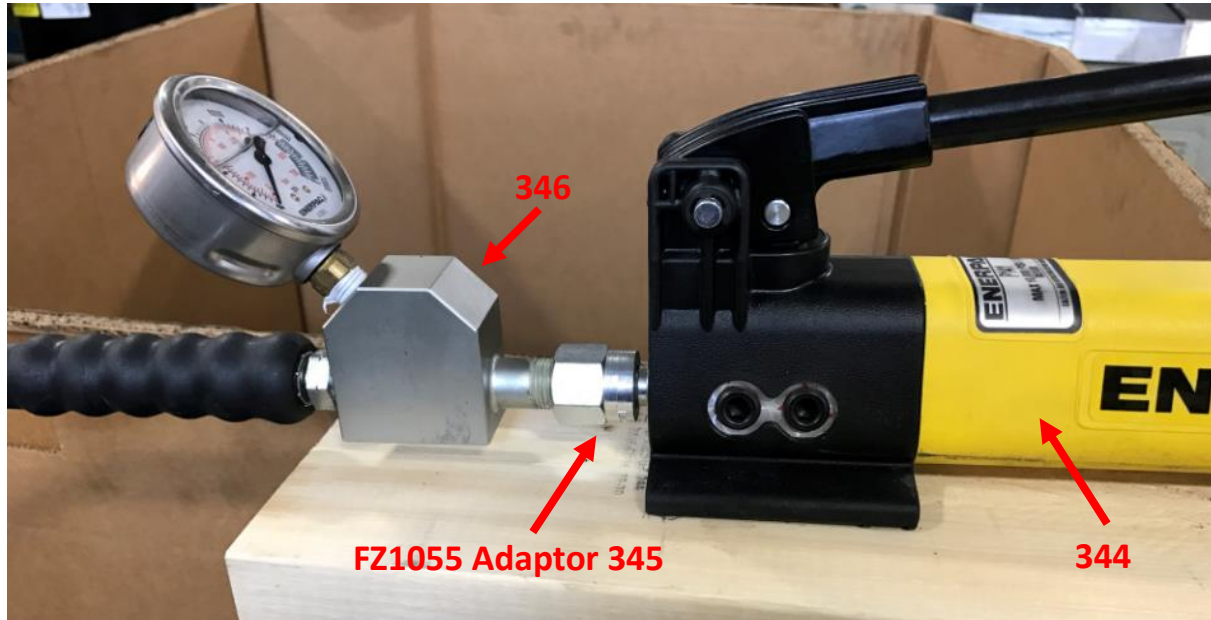
STEP TWO



STEP TWO

Remove the male Hose Coupler from one end of the Energac HC9206C Hose (**348**). Next, wrap Teflon tape around the threads of the hose and thread it directly into the Gauge Adaptor Manifold, as shown in the photo on the next slide. Do not over tighten.

STEP THREE



STEP THREE

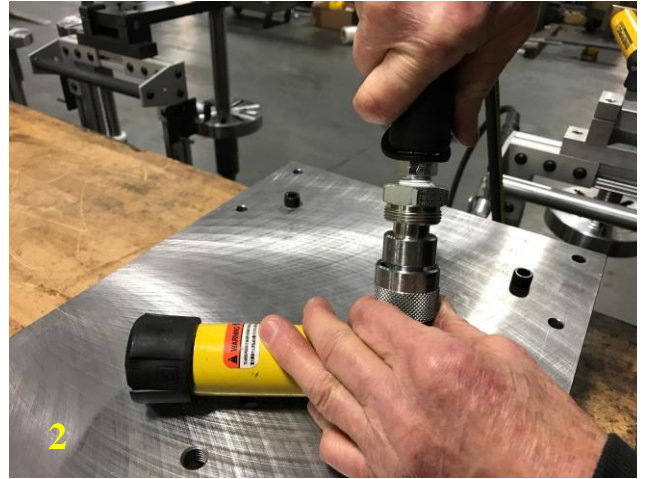
Even if you choose to leave the female hose couplers intact, you will need the Enerpac FZ1055 step down adaptor (345) to connect the GA45GC Gauge Adaptor Manifold assembly (346) to the Enerpac P141 pump (344). The photo above shows the adaptor between the gauge manifold and the pump. Remember to apply Teflon tape to the adaptor threads before installing it in the pump. Do not over tighten the threads.

BLEEDING THE HYDRAULIC COMPONENTS

A detailed explanation of how to bleed the system after the initial assembly is contained on the following pages.

PREPARATION

Before beginning the bleeding process, you must first connect the Enerpac Rams to the hose.

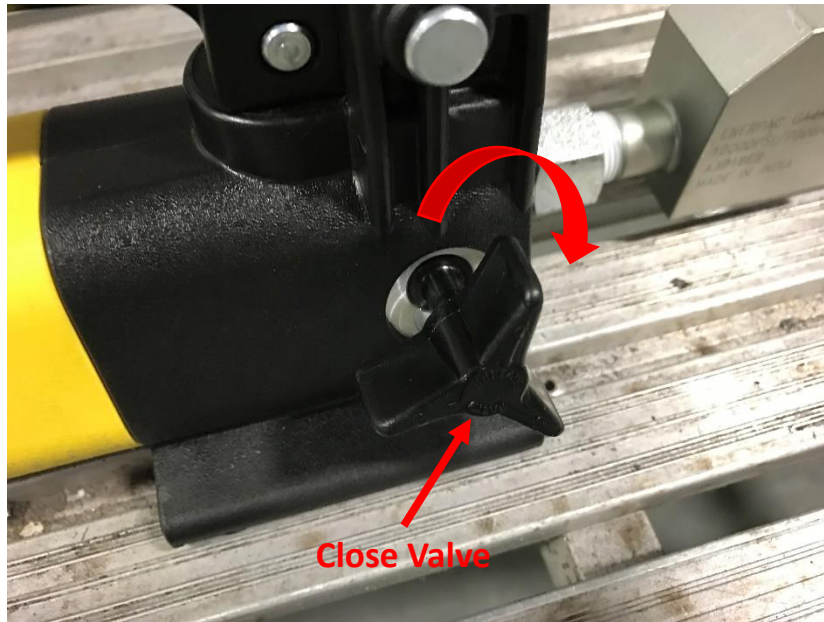


1- Align the male coupler on the hose with the female coupler on the ram. 2-Push the male hose coupler into the Ram coupler. 3- You will feel spring tension as the Ram valve is opened. 4-While holding the Ram valve open, thread the knurled collar onto the hose coupler until it is finger tight.

Do not use any tools to make this connection. When the knurled collar is finger tight it will hold the connection in place sufficiently. If, during manipulation of the assembly the knurled collar starts to loosen, simply finger tighten it again.

Important – If the knurled collar gets too loose the valve in the ram will close and the oil in the ram will not be able to get back to the pump when the pump valve is opened. It is good practice to periodically check to see that the knurled collar is finger tight.

BLEEDING THE SYSTEM



When hydraulic components are assembled for the first time, it is usually necessary to purge any air that is trapped in the circuit. To bleed the air from the hydraulic system, you must first close the valve on the side of the Pump.



Next, place the Ram on the floor or on a level lower than that of the Pump. Now operate the pump until the Ram is fully extended. If air is present in the system, this process could take a little time.

When the Ram reaches full extension, open the valve on the Pump and the ram will quickly retract. If there is air in the system, it will be forced upward into the Pump reservoir. Repeat this process until the Ram operates smoothly and responds to every move of the Pump handle.