IMPORTANT:
Read all instructions and warnings before operating this product.
SAVE THESE INSTRUCTIONS! READ ALL INSTRUCTIONS!

WARNING:
• Risk of personal injury. This gun is capable of developing over 10,000 psi pressure. Do not expose skin to potential rupture sites or end of grease coupler. User should wear safety goggles while operating. Only extensions and couplers rated for this pressure are acceptable to use. If grease injection occurs, seek immediate medical attention. Do not attempt to treat the injury yourself.
• Do not attempt to remove the inlet valve or the internal piston assembly. Reassembly of these components must be performed by trained service technicians to prevent damage. Other attempts to repair or modify will void warranty.

Introduction:
Thank you for purchasing our Legacy ML7 High Pressure Manual Grease Pump. The ML7 offers both mobility and high pressure output when needed. This grease system features our patented MegaBoost™ grease gun head. The MegaBoost™ grease gun has a two way mode switch that delivers grease at either high volume (up to 3500 PSI) or high pressure (up to 10,000 PSI). The ML7 also comes with a 7 lb. container allowing you to take advantage of purchasing grease in bulk.

The ML7 grease system includes a spring loaded pump, MegaBoost™ grease gun, 10 foot rubber grease hose, lid, and a rubber follower plate

Legacy manufactures a full line of greasing accessories/systems to suit your ML7™

General Information:
This manual will guide you with operating and maintaining your new ML7 grease system. Please refer to Maintenance and Troubleshooting section if you experience any problems with this product.

Assembly:
Remove lid / pump assembly from container. Remove and discard the plastic cap from end of pump assembly rod

Remove the rigid extension from container and place teflon tape on the threaded end. Then screw the extension onto the nozzle end of the MegaBoost™ gun head (see Figure 1).

Then remove the wingnut screws from the container and place the lid / pump assembly back onto the container. Insert the wingnut screws into the 3 designated areas on the outside of the lid and turn them evenly until the lid / pump assembly is secured to the container.

Next, apply teflon tape to both threaded ends of the grease hose. Remove the plug from the MegaBoost™ gun inlet. Take the end of the grease hose that’s equipped with the Z swivel and then screw the hose end onto the MegaBoost™ gun head (see Figure 2). The hose end will require a 17mm wrench and the MegaBoost™ gun will require a 15/16” wrench.

Remove the plug on the side of the pump assembly inlet. Now take the other end of the hose and tighten onto the pump assembly inlet with a 17mm wrench.

Loading Procedures:
1. Remove the pump assembly/follower plate from container.
2. Now remove the follower plate from the pump assembly.
3. Fill container with grease
4. Insert the follower in the grease container with the follower plate facing upwards (see Figure 3). Firmly press down until grease emerges through the center of the follower plate.
5. Push the pump assembly through the follower plate (see Figure 4) until the lid is level with the rim of the grease container. Hand tighten the 3 wingnut screws evenly through the side of the lid.
6. To begin priming, push the plunger assembly handle down several times with your hand or foot to start filling the hose with grease. When the hose has been filled with grease and primed, the plunger assembly will stay down.
7. Flip switch on MegaBoost™ gun to Volume mode if switch is in the upward position. Squeeze the gun handle and hold closed in order to bleed air out of the system. Grease will emerge from the gun coupler when hose is fully bled.

Note: Grease must travel through the entire length of the hose to achieve a fully bled hose. It may be necessary to repeat steps 6-7.

If you are having trouble priming the unit, tap the base of the container several times on a hard surface to settle the grease.

Operation:
After completing the Assembly / Loading procedures described in the previous sections, your ML7™ grease system is ready to use.

During use, the plunger assembly handle will rise. When it has risen to the top and the gun loses pressure, push the plunger assembly one to three times to re-prime the pump and continue greasing.

The MegaBoost™ gun operates on Volume Mode for normal greasing conditions. For any situations that require high pressure greasing, simply flip the lever to Boost Mode to easily clear clogged or seized grease zerks / fittings.

Note: Once the hose is bled of air, the ML7™ does not usually require further bleeding when changing containers. If using a partially filled container with grease, remove air bubbles and settle the grease by tapping base of container several times on a hard surface.
**MegaBoost™ Grease Gun features:**
- The switch must be set to “Volume” mode in order to properly prime the gun.
- The handle must be in the full open position to switch from “Boost” mode to “Volume” mode.
- Always allow the handle to fully retract before switching between modes.
- Switching from “Volume” to “Boost” mode will result in a 4:1 increase in pressure for the same grip force. The volume delivered will be decreased to approximately one-fourth while in “Boost” mode. After unblocking the obstruction, switch back to “Volume” mode for normal delivery (22 strokes / ounce).
- When full stroke of the handle is not possible due to limited space, partial strokes may be used to deliver grease at proportionally lower displacement per stroke.

**Boost Mode**

up to 10,000 PSI

**WARRANTY**

LEGACY MANUFACTURING COMPANY ("LEGACY") warrants that this equipment, (NOT including couplers, whip hoses, refillable container, and wear items such as seals, will be free from defects in material and workmanship for a period of five (5) years from the date of purchase, under normal use.* LEGACY'S sole obligation under this warranty is limited to replacing or repairing, free of charge, equipment that proves to be defective under normal conditions and use according to the recommendations of LEGACY. LEGACY will NOT warrant this product under conditions of misuse or abuse. This warranty is void in cases where the product has been modified and/or tampered with. To obtain repair or replacement, the equipment must be shipped to a LEGACY authorized Warranty and Service Center during the warranty period, transportation charges prepaid, with proof of date of purchase. In the event of repair or replacement, the warranty period shall not be extended beyond the original warranty period. While necessary maintenance or repairs on your Legacy equipment can be performed by any company, we recommend that you use only authorized Legacy service centers. Improper or incorrectly performed maintenance or repair voids this warranty. Contact us at service@legacymfg.com or www.legacymfg.com for ordering, installation instructions or a list of authorized service centers.

**TROUBLESHOOTING GUIDE:**

**MLT™ grease system**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pumps rod cap rises slowly when not using the gun. (No visible leaking)</td>
<td>A) Dirt trapped between the inlet ball and the piston. B) The piston o-ring is defective or worn</td>
<td>Clean out the grease from the pump body. Replace the o-ring.</td>
</tr>
<tr>
<td>Pump handle springs up and the unit will not pump grease.</td>
<td>A) Air lock in the grease caused by: 1) Dent in the container stopping the follower plate 2) Damaged follower o-ring B) Grease container empty C) The foot-valve assembly is faulty, holding the ball off the seat.</td>
<td>1) Remove the dents or tilt the follower under the dent 2) Replace the o-ring in the follower 3) Change over to a new grease container or refill the old container with grease. 4) Replace with a new foot-valve assembly (Do not attempt to rework this part)</td>
</tr>
<tr>
<td>Pump handle stays down, but the unit will not pump grease.</td>
<td>A) The grade of grease is too heavy. B) The strainer is blocked.</td>
<td>A) Use NLGI No. 2 grease or lighter. (Forced out the old grease). B) Remove retainer ring, clean strainer.</td>
</tr>
<tr>
<td>Grease leaks at the top of the pump head</td>
<td>A) Gland o-ring is defective or worn.</td>
<td>A) Un-screw pickup-tube from pump head. Remove pin from piston assembly, care fully unscrew nut to release plunger. Be aware of spring force. Replace o-ring.</td>
</tr>
</tbody>
</table>

**Problem**

- Coupler leaks.

**Solution**

A) Change to Volume mode and pump the handle sharply. If it still leaks, remove the extension, spring keeper screw, spring and ball. Clean the set and replace the ball, spring, and spring keeper (part way). Prime the pump and screw in the spring keeper screw until the grease stops leaking. Then screw in an extra 2 full turns. Reassemble extension.

Note: Too many turns makes the gun hard to operate, and too few turns allows gun to leak. If the coupler still leaks replace the complete outlet body assembly.

B) Close valve at inlet to gun when not in use

- Gun leaks at the back end of the piston
  - A) Glyd ring worn.
  - B) Piston o-ring worn.

A) Remove the handle pin and handle. Remove the old piston and replace with a new piston assembly**.

**Gun fails to deliver grease on the Boost mode setting**

A) Dirt under the inlet valve seat or damaged ball seat.
B) Seal is worn.
C) Anti-rotation pin has sheared.

A) Clean the inlet valve ball seat without removing valve. B) Replace seal in the inlet and outlet valves. C) Replace piston assembly**.

**Gun fails to deliver grease on the Boost mode setting**

A) Dirt on the inlet valve seat.

A) Clean the inlet valve ball seat without removing valve. B) Replace piston assembly**.

**The gun is too slow or hard to operate when on Boost mode.**

A) Surface of pressure piston is too rough.
B) Grade of grease is too heavy or temperature is too low.
C) Too much compression on the outlet spring.

A) Replace piston assembly**. B) Change grease to NLGI No. 2 grease or lighter. C) Reset the spring keeper screw (refer to A) or replace the outlet body assembly.

Note: This fault will decrease volume.