

LEVELING AND STABILIZATION

Purpose

This document outlines the removal of Gen I hydraulic jacks and replacement with Gen II jacks. This includes the 8K mid/rear jacks and the 14K lead and follow landing gear jacks.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels. This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage.

WARNING

The "WARNING" symbol above is a sign that an installation procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

WARNING

The unit **MUST** be supported per manufacturer's recommendations before working underneath. Failure to do so may result in death or serious personal injury.

CAUTION

Always wear eye protection when performing this installation procedure. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the installation procedure.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Resources Required

- Electric or cordless drill or screw gun
- Appropriate sockets
- Appropriate drive bits
- Torque wrench
- Open-end wrenches
- Tee fitting PN 138422, if needed

Procedures

Replacement Jack Location

NOTE: The procedures listed below are for replacing both mid/rear and landing gear jacks. The process ensures proper location of the replacement jacks.

1. Before removing the original jack, note the location of the mounting holes on the jack and the mounting bracket (Fig. 1 or Fig. 2).

NOTE: Count the number of mounting holes from the first bolt to the bottom of the jack.

2. Measure the distance from the ground to the footpad of the retracted jack (Fig. 1 or Fig. 2).
3. When reinstalling jacks, match the number of mounting holes from the first bolt to the bottom of the jack (Fig. 1 or Fig. 2).
4. When reinstalling jacks, be sure to install bolts in the same location based on the number of mounting holes to the bottom of jack.
5. Once installation of the Gen II jack has been completed, measure the distance from the footpad to the ground to verify installation is correct.

Fig. 1

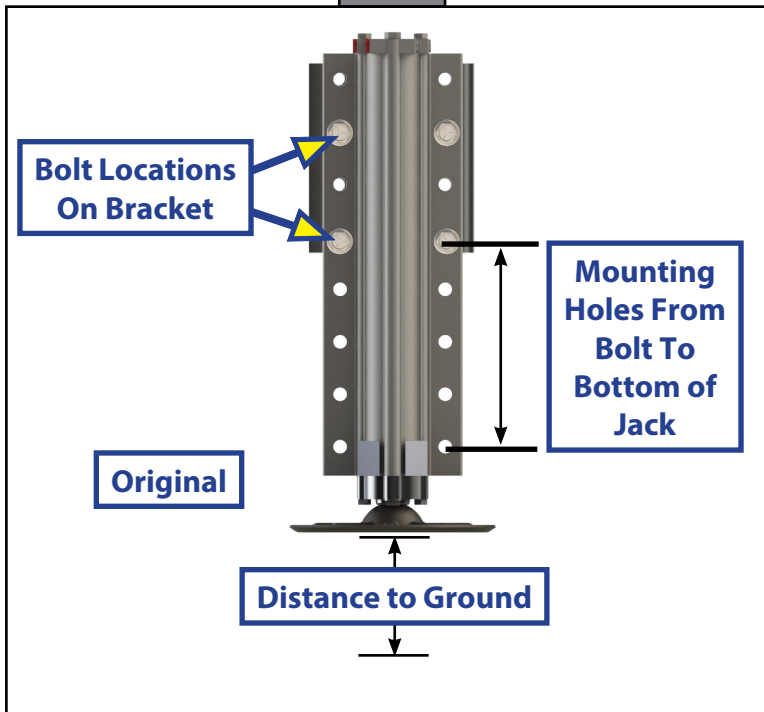
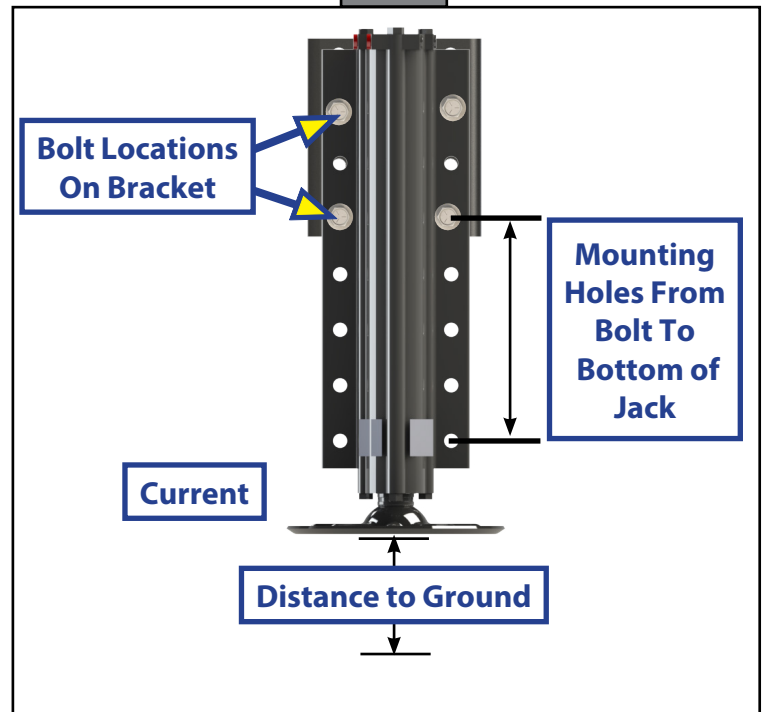


Fig. 2



Mid and Rear Jacks

1. Remove hoses from the middle and rear jacks of the unit.
2. Follow procedures outlined in the Replacement Jack Location section, and then unbolt and remove existing leveling jacks (Fig. 3).
3. Match the number of mounting holes from the first bolt to the bottom of the jack and then bolt the new Gen II jacks (Fig. 4) to the mounting brackets.
 - A. Upper and lowermost bolts are vertically spaced with a minimum of two-hole patterns spaced 4.5" apart (Fig. 5) and tightened to 52-64 ft-lbs. A spacing of three-hole patterns (6.75") is recommended where possible.
4. Measure the distance from the footpad to the ground to verify installation is correct.

Fig. 3

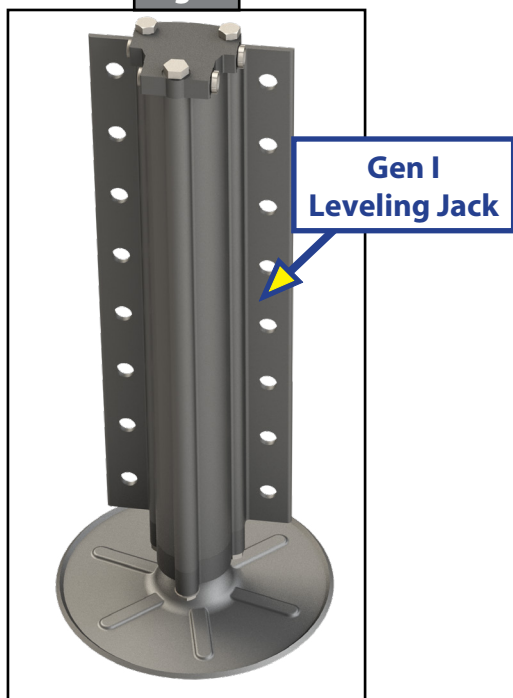


Fig. 4

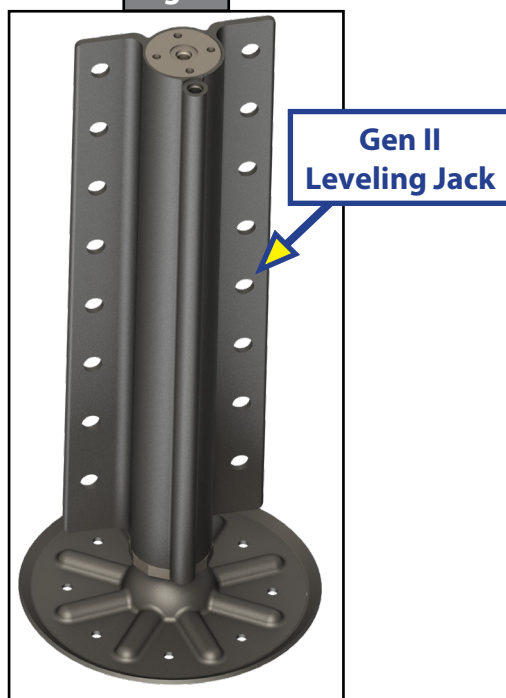
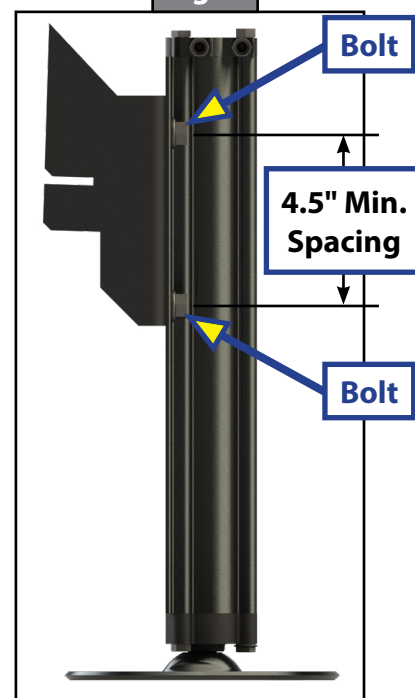


Fig. 5



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5. Reinstall hydraulic fittings to mid/rear leveling jacks.

NOTE: On motorized leveling, the extend hose is black and the retract hose is orange.

- If the Gen I jack has two orange extend hoses and two black retract hoses (Fig. 6A), a tee fitting PN 138422 (Fig. 7) must be used to connect the hoses to the single extend and retract ports on the Gen II jack (Fig. 8).
- If the Gen I jack has only one orange extend hose and one black retract hose (Fig. 6B), then the hydraulic fittings can be connected to the Gen II ports (Fig. 8) without using a tee fitting.

Fig. 6

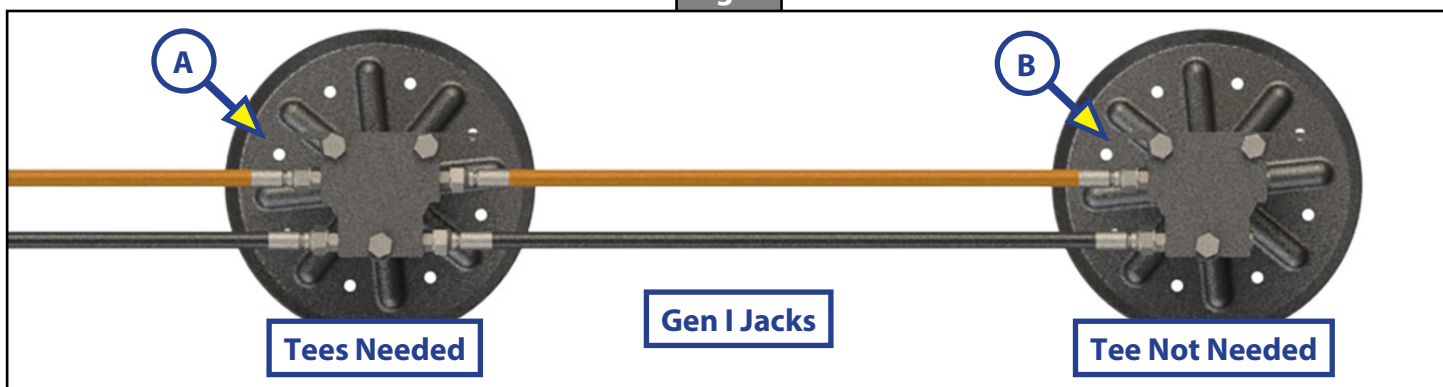


Fig. 7

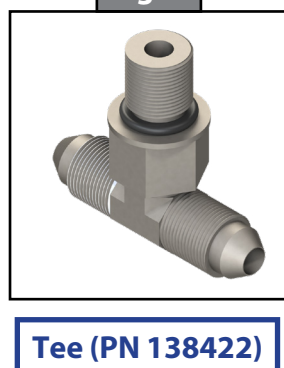


Fig. 8

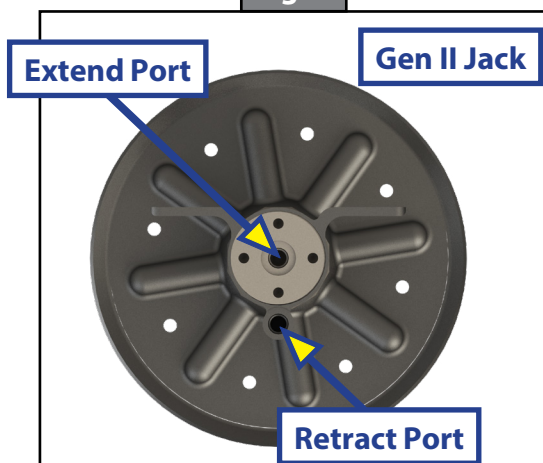


Fig. 9



NOTE: If hoses need to be replaced, measure and make the hydraulic hoses. Always follow the manufacturer's specifications for the correct minimum bend radius throughout the entirety of the hose route. Use gauges to verify areas with questionably tight bends. Fitting orientation can be adjusted to achieve this in some applications. The correct bend radius is shown in Fig. 9.

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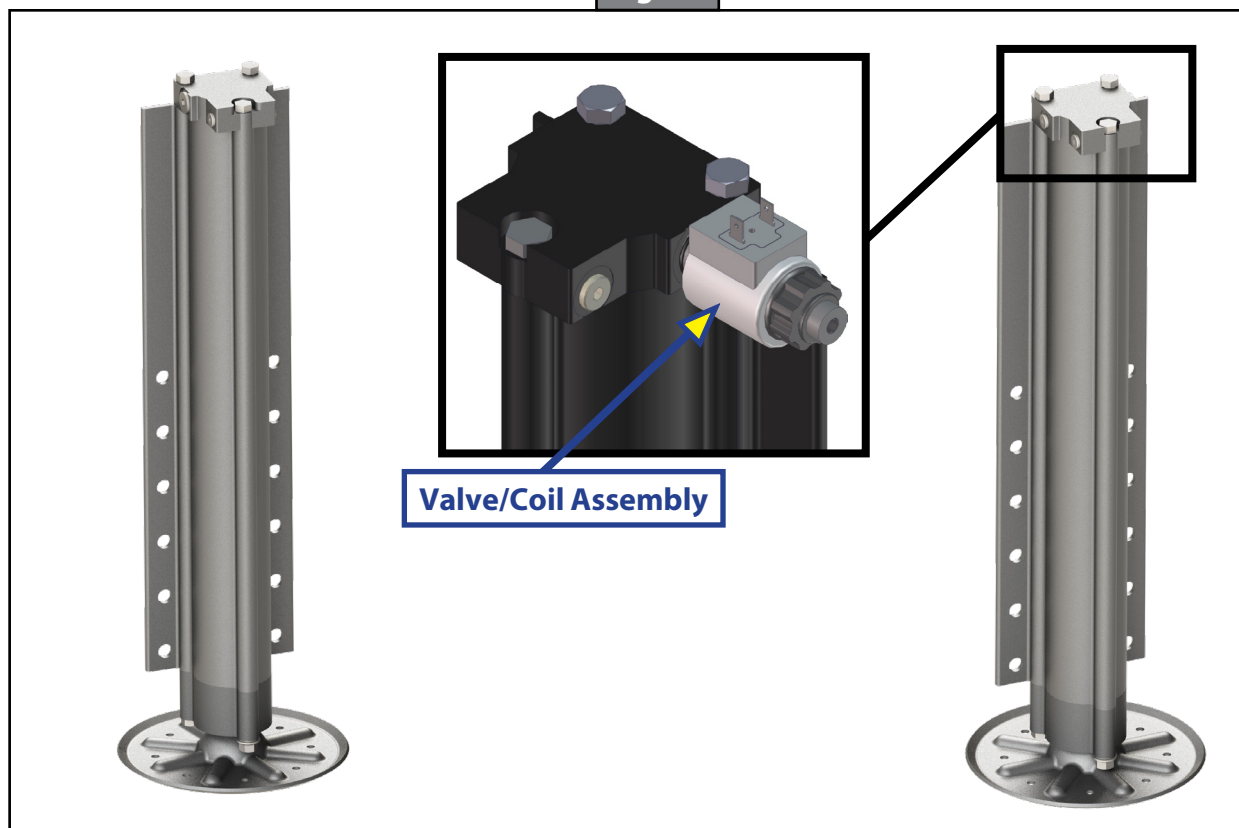
Landing Gear

1. Remove the hoses from the landing gear.
2. Follow procedures outlined in the Replacement Jack Location section, and then unbolt and remove existing leveling jacks from the front of the unit.
3. Match the number of mounting holes from the first bolt to the bottom of the jack and then bolt the new Gen II jacks to the mounting brackets.
 - A. Use four bolts and nuts to attach the landing gear jacks to the mounting brackets. Uppermost bolts should be placed in the top holes of the jack. Tighten to 52-64 ft-lbs.

NOTE: Make sure not to cross-thread the bolts and nuts.

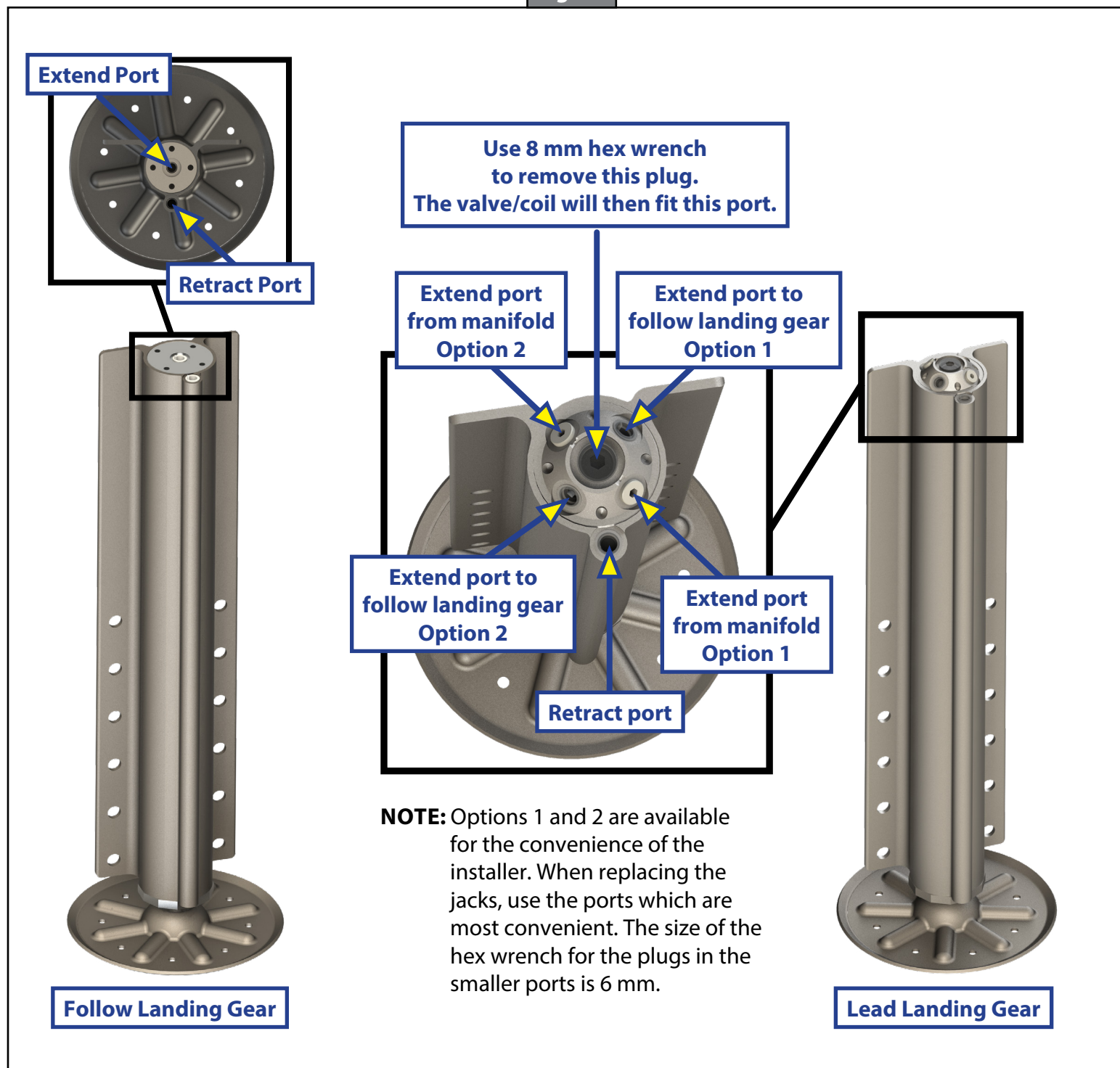
4. Measure the distance from the footpad to the ground to verify installation is correct.
5. Install the hydraulic fittings on the new landing gear jacks (Fig. 11).
6. Remove the spark-proof valve/coil assembly from the Gen I lead landing gear jack (Fig. 10) and reinstall it into the Gen II lead landing gear jack (Fig. 11).

Fig. 10



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Fig. 11



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