

GUIDE ROD INSTALLATION

The Guide Rod is attached to the Mini P&T Camera to steer the camera in the pipeline during inspections involving wyes and to help navigate around blockages. Each camera includes an Accessory Kit, P/N LL901, to assist with the Guide Rod installation process.

- Using an Allen Wrench, remove the screw and cover from the camera head as shown.
- Install the Guide Rod Housing as shown.
- Re-install the screw (used in Step #1) using an Allen Wrench.
- 4 Select the desired rod length from the Accessory Kit.
- 5 Prior to assembly, apply Blue Loctite to the Rod threads. Install by screwing the Rod and Ball into the housing as shown. Secure with a Cresent Wrench utilizing flats on the Rod.

NOTE: For Screen Operations, refer to the K2 User Manual, P/N MD910, Mini Pan & Tilt Functions section.













FOR USE WITH LAMP II ONLY

ATTACHING THE CAMERA TO THE LATERAL PUSH CABLE

The following procedure is for use with the LAMP II only. To attach the camera to the push cable:

NOTE: Prior to re-assembly, it is recommended to apply Deoxit (CUES P/N CS569) to the pins / connections. Deoxit is included in the camera kit.

- 1 Align the visual markers and guide pins and mate the cable ends together.
- 2 Thread the cable nut completely, ensuring the o-ring is covered and no physical play can be felt between the ends. Ensure the notches on the push cable and spring assembly end are aligned.
- 3 Tighten with a wrench (not shown).
- 4 Snap the C-Clip over the flats between the nut and spring where shown.

NOTE: The C-Clip must be removed in order to disassemble the spring adapter from the push cable.

NOTE: For Screen Operations, refer to the K2 User Manual, P/N MD910, Mini Pan & Tilt Functions section.

MINI PAN & TILT CAMERA QUICK GUIDE

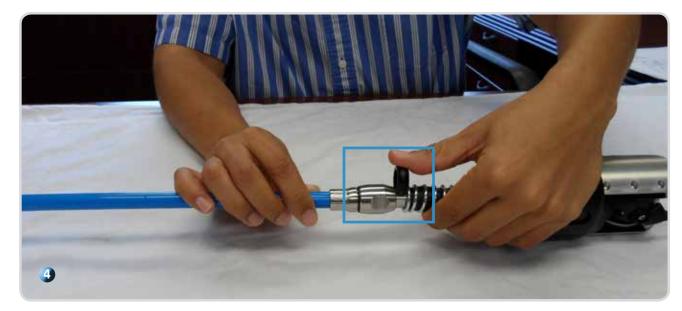
P/N LL950, Rev. Original



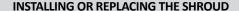








MINI PAN & TILT CAMERA QUICK GUIDE P/N LL950, Rev. Original



The following procedure is for use with the LAMP II and MPlus+ only. To install or replace the shroud, perform the following:

Using a Phillips screwdriver, remove the (2) screws from the shroud, P/N LL082 or LL082-1, as shown.

NOTE: There are (2) different shrouds available. Most inspections will require shroud P/N LL082. For pipes with severe corrosion and/or smaller pipe diameters, use shroud P/N LL082-1. Follow the same steps for either shroud.

- 2 Place the camera in the desired shroud and turn until the one of the screw heads is seated/locked in the slot that's located on the inside of the shroud.
- 3 Using a Phillips screwdriver, re-install the (2) screws from Step #1 and secure until tight.

NOTE: For Screen Operations, refer to the K2 User Manual, P/N MD910, Mini Pan & Tilt Functions section.













P/N LL950, Rev. Original



INSTALLING OR REPLACING THE SPRING

The following procedure is for use with the LAMP II and MPlus+ only. Ensure that the Shroud is removed per the previous instructions prior to performing this procedure. To install/replace the spring, perform the following:

- Using an Allen Wrench, remove the (6) screws located around the rear of the camera as shown.
- Remove the spring.
- 3 Before re-installing the spring, ensure that the hole and the pin are aligned as shown.

NOTE: Prior to re-assembly, apply Blue Loctite to the screw threads.

NOTE: Prior to re-assembly, it is recommended to apply Deoxit (CUES P/N CS569) to the pins / connections. Deoxit is included in the camera kit.

Using an Allen Wrench, re-install the (6) screws from Step #1 until secure.

NOTE: For Screen Operations, refer to the K2 User Manual, P/N MD910, Mini Pan & Tilt Functions section.









MINI PAN & TILT CAMERA QUICK GUIDE P/N LL950, Rev. Original



PRESSURIZING THE CAMERA

The following procedure is for use with the LAMP II and MPlus+ only at this time. Ensure that the Shroud is removed per the previous instructions prior to performing this procedure. Perform the following steps to pressurize the camera:

- With the Shroud removed, remove the valve cover using the valve remover tool.
- 2 NOTE: Only remove the cover when pressurizing the camera! Do not remove the valve located behind the valve cover!
- Install the valve adapter until secure.
- 4 Pressurize with dry nitrogen using a standard (Schrader) fill tool.

NOTE:

Re-pressurization should be done on an asneeded basis. The charge station is typically set to ~7-10 psi (relative). The camera will settle to ~7psi and CUES recommends re-pressurization at 1psi (relative).

NOTE: For Screen Operations, refer to the K2 User Manual, P/N MD910, Mini Pan & Tilt Functions section.







