Adding Hydraulic Fluid to the Arbor

Product

Kodak® ThermoFlex® Wide II Sleeve

Background

Over time, the hydraulic oil level in the arbor may decrease due to leakage from any of the O-rings.

Solution

Periodic checking and refilling of the hydraulic oil level is required to ensure uninterrupted arbor service.

Parts required

Part Number	Part Name	Quantity
Kit **512-00268A** includes:	**Arbor filling kit**	
89-0096	Disposable plastic syringe with the needle thread trimmed off (but not the tip)	1
690-00452A	Hydraulic system filling adapter	1
316-00083	Filling port oring	1
Local supply	Petroleum based (not synthetic) hydraulic oil grade ISO 68	5 ml

Tools required

- 5 mm Hex key

To check the hydraulic fluid level:

The level of the hydraulic fluid in the arbor is determined by counting the number of turns of the plunger screw required to fully pressurize the system. To check the level of the hydraulic fluid, perform the following steps:

1. Make sure that there is a shell installed on the arbor.
2. Fully retract the plunger screw.
3. Screw in the plunger screw and count the number of full turns it takes to thread it in as far as it will go.
4. If the number of turns is 18 or greater (21 for the premounter arbor), the arbor should not be used until the system is filled. If it is between 16 and 18 turns (19-21 for the premounter arbor), the arbor may be used, but the system should be topped up as soon as possible, or at a minimum, monitored closely.

To top up the hydraulic fluid:

1. Fully retract the plunger screw.
2. Turn the arbor so that the filling port is facing up.

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3. With a 5 mm hex key, remove the M8 button-head screw from the filling port near the headstock end of the imaging arbor (or the driven end of the premounter arbor), and fill the hole to the top with hydraulic fluid.




4. Thread the hydraulic system filling adapter into the filling port.
5. Suck up at least 3 ml of hydraulic fluid into the syringe and make sure there is no air trapped in the syringe.
6. Insert the tip of the syringe into the filling adapter and make sure that an air bubble is not trapped in the filling adapter. Squeeze the plunger of the syringe fairly hard until it moves and continue to push it until it stops. The amount of fluid that enters the arbor will vary based on how empty it was. If the plunger screw turned 18 or more turns (21 for the premounter arbor), close to 3 ml should be injected; if it only turned 16-18 turns (19-21 for the premounter arbor), 1 to 2.5 ml should be injected.
7. Remove the syringe and filling adapter.
8. Remove the O-ring from the filling port and replace it with a new one.
9. Fill the port up to the top of the threads and thread in the M8 button-head screw and tighten it.
10. Wipe up any hydraulic oil around the filling port.

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