



## **USER MANUAL**

### ***#30 Leica Type Microscope Mount Set***

**14-0010**

**Version 2.00**

**2013**

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2013

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**CYCLE WARRANTY CRITERION:** One "cycle" is considered one open and one closure of the shutter. DSS Shutter must be operated with the ED12DSS driver or equivalent H-Bridge type shutter driver circuit at +10.7VDC across the actuator coil for the specified duration. DSS Shutter must be operated within the defined environmental, electrical and mechanical specifications as listed on the device's data sheet. After one year (WARRANTY PERIOD), the cycle warranty is null and void. If returned, the device must be accompanied by a written statement indicating the approximate number of cycles contained on the device, include all parameters to which the shutter was operated and follow the RETURN MATERIAL AUTHORIZATION PROCEDURE as defined below.

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## Introduction

The #30 mount set adapts specific housing types to the transmitted light column of a DMIRB type Leica microscope. This mount attaches in place of a removable diaphragm module via a set screw in the microscope. The housed versions of the VS, LS, and XRS series shutters, as well as the CS25 and CS35, can be configured with this mount set type. A clearance cutoff (1.38in/35.1mm from the aperture center) is provided with the VS series only.

## Assembly Procedure

### Mount Assembly

#### Unpack the Mount Set

As you remove the packing material from the box, check for small items that may be attached to the packing material. Make sure the following parts were included in the box:(see **parts list table and Figure 1**)

#30 MOUNT SET PARTS LIST			
ITEM	PART NAME	QUANTITY	PART NUMBER
1	VS14/VS25/VS35 SHUTTER	1	N/A
2	#30 LEICA TRANSMITTED 40MM ADAPTER	1	9003-0275
3	#100 MOUNTING RING (for use without Iris Diaphragm Module)	1	9003-0025
4	#30 MOUNTING RING (for use with Iris Diaphragm Module)	1	9003-0274
5	4-40x1/2" P. H. SCREW	4	20-0165
6	M3x.5x8 P.H. SCREW (OPTIONAL)	3	20-0250

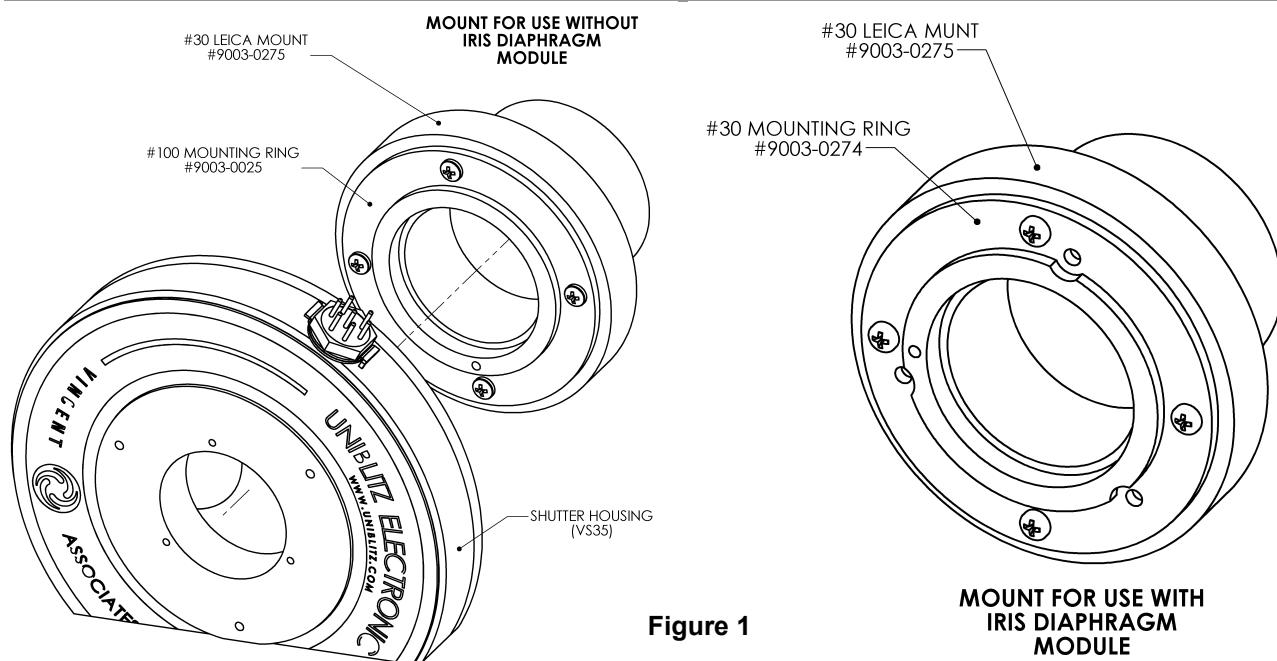


Figure 1

## INSTALLATION STEPS: (WITHOUT IRIS DIAPHRAGM MODULE)

### Step One:

Screw the #30 LEICA mount assembly onto the shutter housing and tighten securely (see Figure 2).

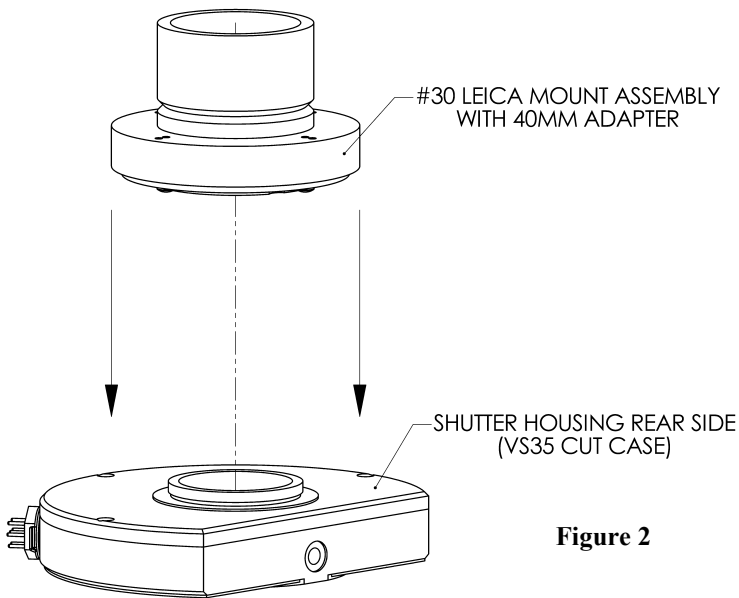


Figure 2

### Step Two:

Remove diaphragm module from support of SCOPE, secure the #30 mount assembly into the support, with available screws (see Figure 3). **(NOTE: Shutter assembly is installed in place of Diaphragm module)**

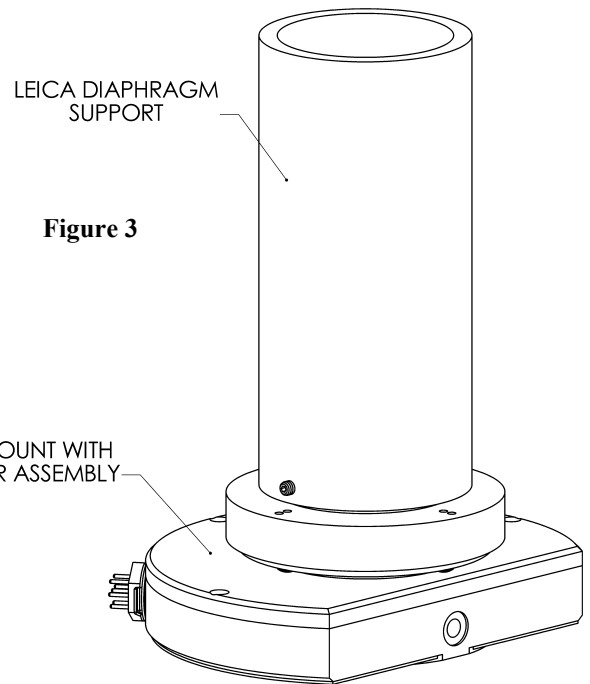


Figure 3

### Step Three:

Final assembly as shown (see Figure 4).

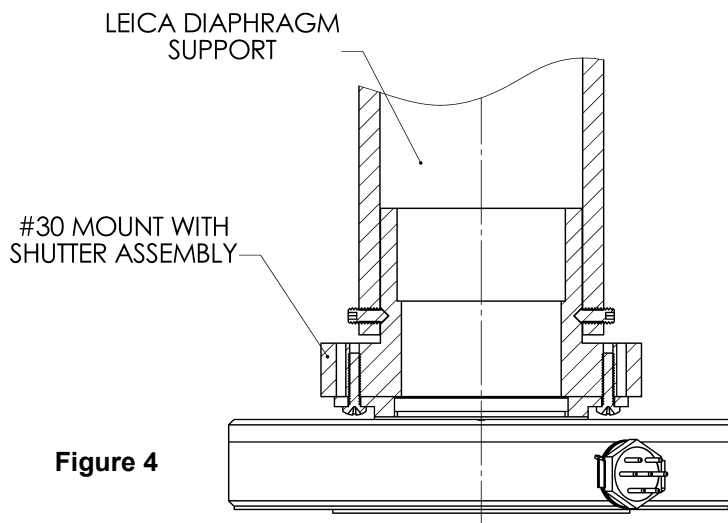


Figure 4

## INSTALLATION STEPS: (WITH IRIS DIAPHRAGM MODULE)

**Step One:** Remove Diaphragm Module from LEICA microscope and carefully remove three screws which secure Iris Diaphragm (see Figure 5).

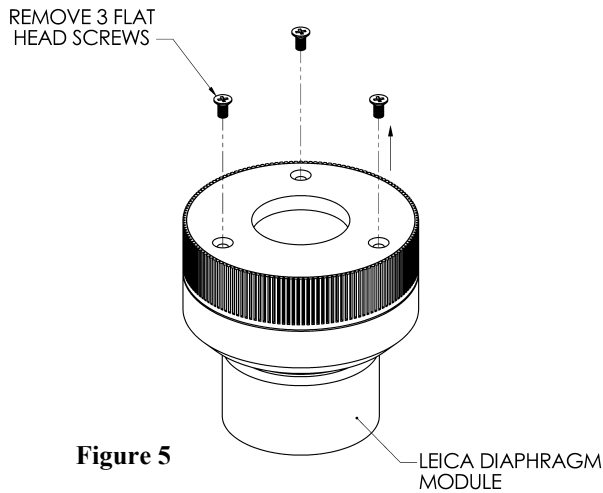


Figure 5

### Step Three:

Screw the #30 LEICA Diaphragm Module assembly onto the Shutter housing and tighten securely (see Figure 7).

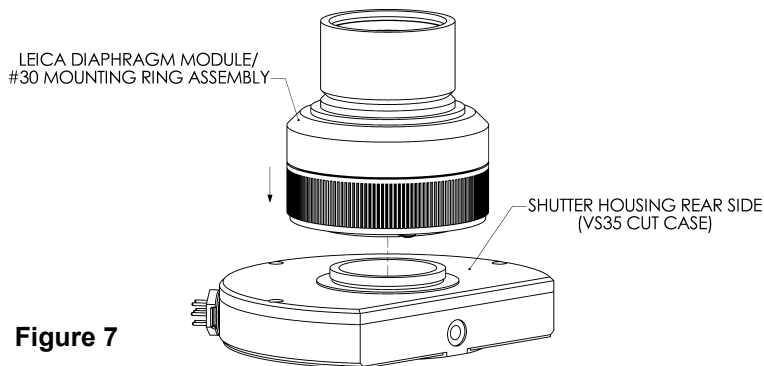


Figure 7

### Step Five:

Final Assembly as shown (see Figure 9).

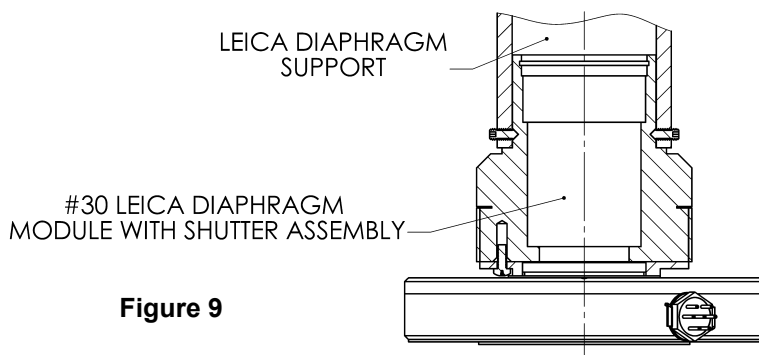


Figure 9

### Step Two:

Remove #30 mounting Ring from 40mm Adapter. Set 40mm Adapter aside. Attach #30 mounting Ring to Diaphragm Module with three M3 screws, separately included (see Figure 6)

(NOTE: LEICA Diaphragm Module installed in place of 40mm adapter.)

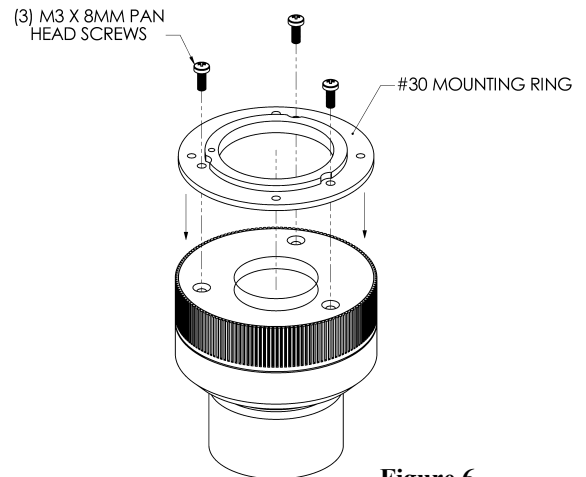


Figure 6

### Step Four:

Re-attach Diaphragm Module Shutter Assembly to LEICA microscope (see Figure 8).

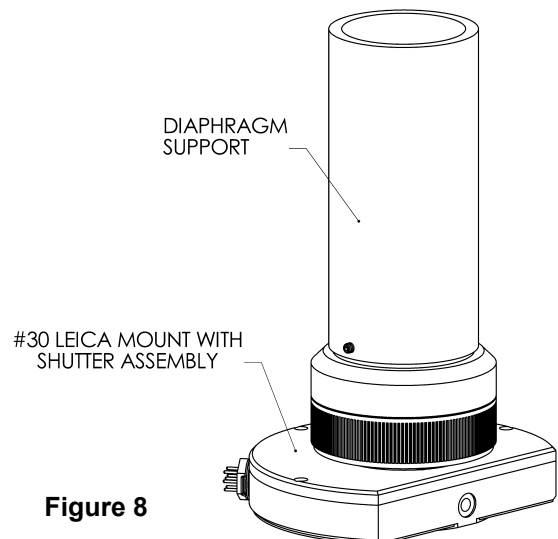
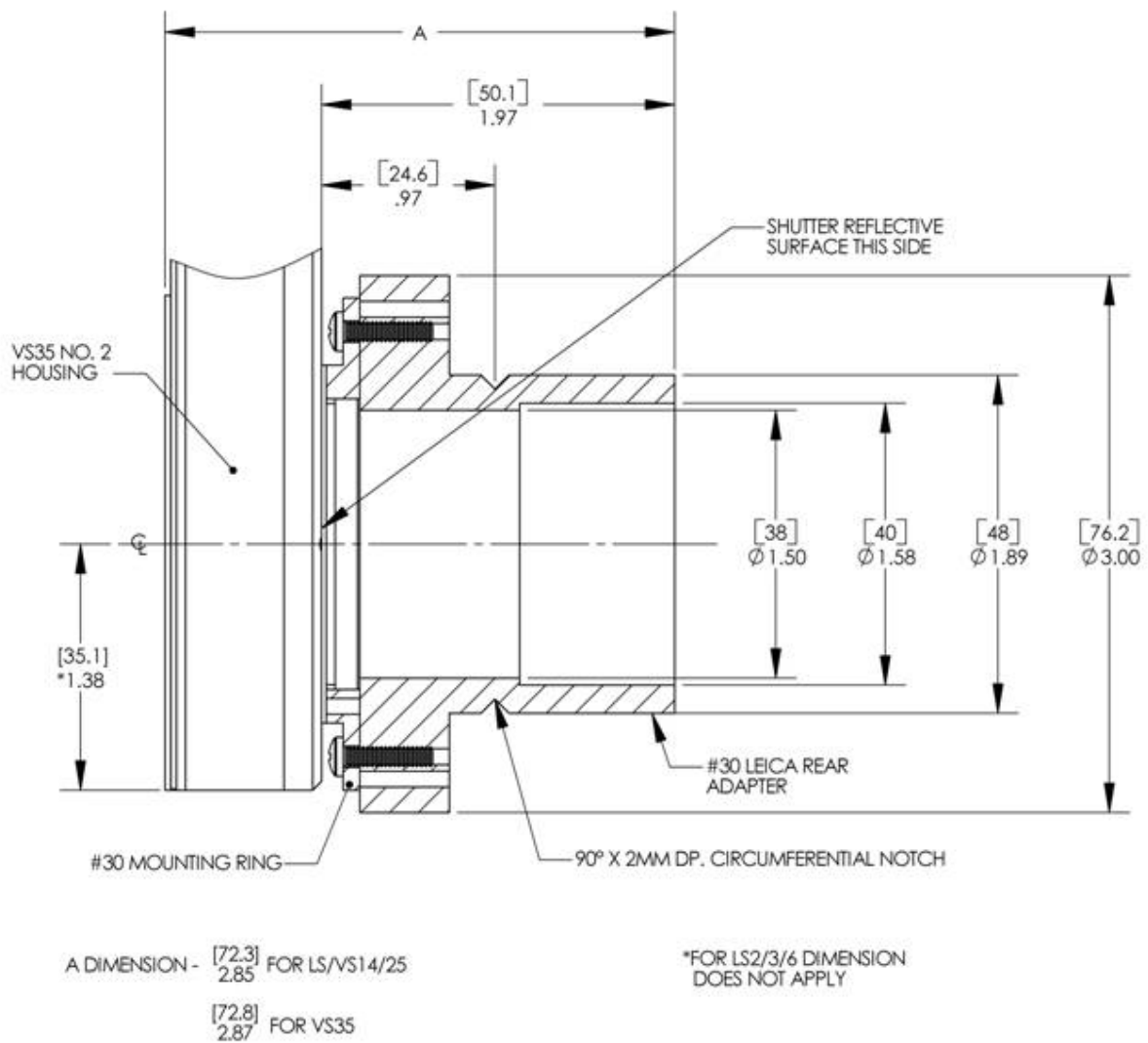


Figure 8

## Specifications



ALL DIMENSIONS MAX

[mm]

INCH

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Drawings shown for illustrative purposed only.

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