

SV Prescribed Prism Guide CL- 300



Single Vision Prescribed Prism

1. Set the lens meter to the Right Lens single vision setting:

1A: If needed, use the Measurement Mode button to change lens type to SV.

1B: Press the Clear icon to erase previous readings.

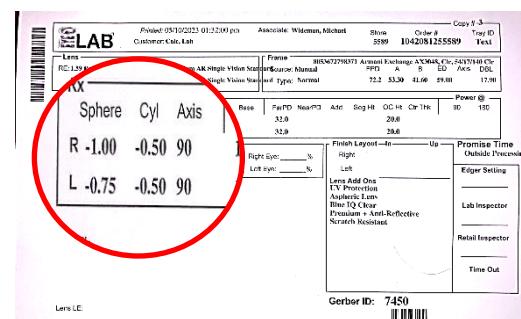
1C: Ensure the Right Eye icon is highlighted.

Note: The CL-300 defaults to the single vision Measurement Mode when first powered on.



2. Determine the power and axis for the SV lens:

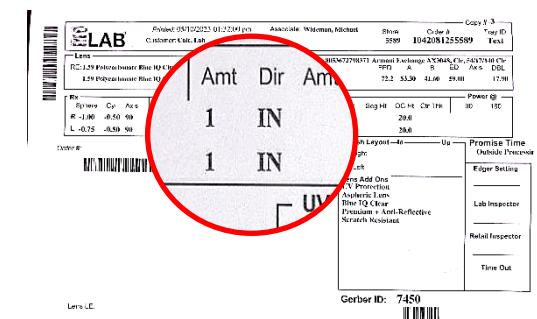
2A: Check the job ticket for the power and axis prescribed by the doctor.



3. Determine the amount of prescribed prism on the SV lens:

3A: Check the job ticket for the total amount and direction of prism prescribed by the doctor. In this case, the ticket calls for 1D Base In Prism.

Note: Progressives and Lined Multifocal lenses have prism ground as part of the surfacing process and are laid out as normal during edging.



4. Move the lens vertically and/or horizontally to match prescribed prism:

4A: Position the lens so it is resting against the lens stop.

4B: Move the lens to match the prescribed prism value on the job ticket. The lens will NOT be centered as with normal "Marking OK" layout.

4C: While maintaining the prescribed prism, rotate the lens to the correct axis.

In this case the Lens Meter should read 1D Base In and 0D Base Up/Down

Note: Plus lenses and minus lenses move in opposite directions for prism. Right and Left lenses also move opposite.

"I" stands for Base In Prism and "O" stands for base out prism.

"U" stands for Base Up prism and "D" stands for Base Down prism.



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5. Clamp the lens:

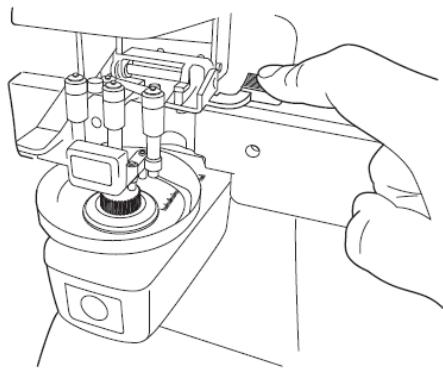
5A: After the prescribed prism and axis on the lens meter match the job ticket, clamp the lens in place.

5B: When the lens is clamped, the cross may move a little out of alignment and need to be readjusted. With one hand, release just a bit of pressure from the lens clamp and readjust the alignment cross so it is perfectly aligned.



6. Spot the lens:

6A: Use the Marking Pin Lever to spot the lens. This marking will be used for blocking.



7. Mark the right lens:

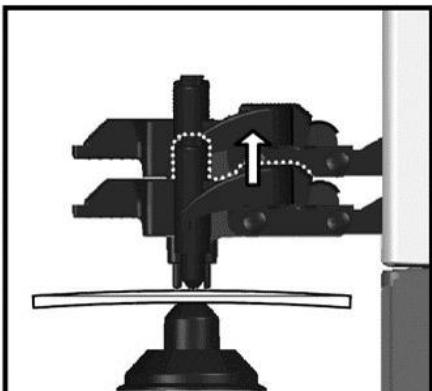
7A: Before removing the lens, mark the portion of the lens closest you with an upside-down R indicating the top of the Right lens. Failing to mark the top of the lens could result in cutting it upside down with the prism in the wrong direction.



8. Remove the right lens:

8A: Lift the lens clamp and remove the right lens.

8B: Place the Right lens in the Right side of the job tray on the tray ticket.

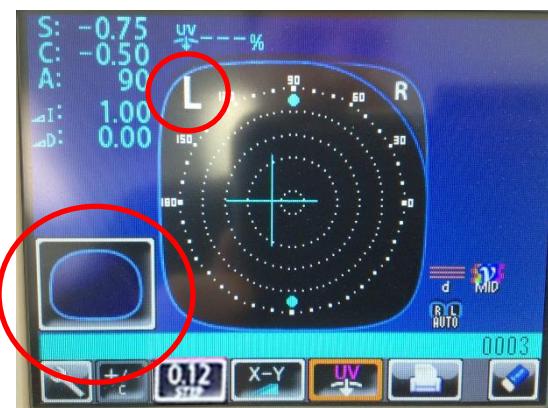


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9. Set the lens meter to the Left Lens single vision setting:

9A: Press the Clear icon to erase previous readings.

9B: Ensure the Left Eye icon is highlighted.

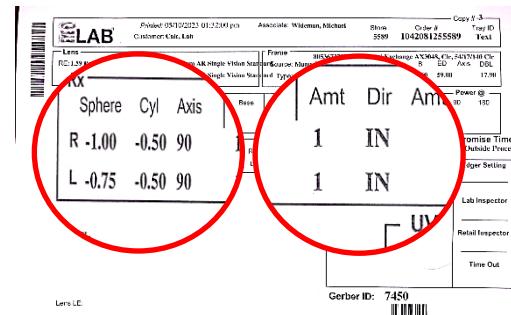


10. Repeat Steps 1 – 8 for the left lens:

10A: After the measurement of R lens, repeat steps 1-8 with the left lens ensuring to look at the job ticket for the proper left lens measurements.

Note: Read the job ticket carefully as the doctor may or may not have prescribed prism in both eyes.

Remember to mark the portion of the Left lens facing you with a "L" once properly oriented.



In this case the Lens Meter should read 1D Base In and 0D Base Up/Down



Single Vision Prescribed Prism

Base Out Prism Example

Note: The previous example showed Horizontal "Base In" Prism. Below is an example of an Rx and Lens Meter readings with Horizontal Base Out Prescribed prism. The lens has been moved horizontally so that the "I" has changed to an "O" on the screen.

	Sphere	Cyl	Axis	Amt	Dir
R	-1.00	-0.50	90	1	OT
L	-0.75	-0.50	90	1	OT

In this case the Lens Meter should read 1D Base Out and 0D Base Up/Down



In this case the Lens Meter should read 1D Base Out and 0D Base Up/Down



Base Up/Down Prism Examples

Note: Below is an example of an Rx and Lens Meter readings with Vertical Base Up/Down Prescribed prism.

	Sphere	Cyl	Axis	Amt	Dir
R	-1.00	-0.50	90	1	UP
L	-0.75	-0.50	90	1	DN

In this case the Lens Meter should read 1D Base Down and 0D Base In/Out



In this case the Lens Meter should read 1D Base Up and 0D Base In/Out

