Operating instructions for the probe PH MASDVT850W6 BL4 103RH-13C/H (H13892/0001)

1. Changing $\lambda/2$ -mode to $\lambda/4$ -mode

λ/2 mode	X	${}^{1}H$	1/1 10	X	${}^{1}H$
	f/MHz	f/MHz	λ∕4 mode	f/MHz	f/MHz
e.g. ²⁹ Si- ¹³ C/ ¹ H	168 - 213	850.13	e.g. 103 Rh- 2 H/ 1 H	27 - 130	850.13

The probehead is delivered in $\lambda/4$ – mode with a short circuit screw!

- Unscrew (but don't remove) 4 screws at the flange of the *shielding tube* and remove the tube
 In case of operating in λ/2-mode, e.g ¹³C/¹H, or experiments in the upper X-range (136...217MHz) it is necessary to open the *short circuit screw* (at the $\lambda/2$ -tube of the ¹H-channel, see fig. 1, below). In the other case in $\lambda/4$ mode, e.g. ${}^{15}N/{}^{1}H$, or experiments in the lower X-range (24...147MHz), use the marker at the $\lambda/2$ -tube and *carefully turn in* this screw until one has contact with the inner conductor of the $\lambda/2$ -line, see fig. 2, below. Do not turn this screw too far in order to avoid bending or damage of the inner conductor
- 3. Slide on the shielding tube and lock it
- 4. First tune and match ¹H, and then X. Repeat this procedure for fine tuning.

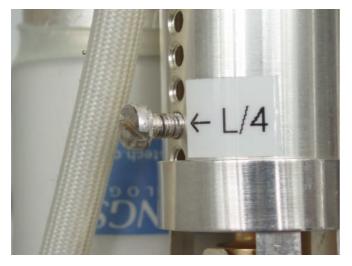


fig.1: $\lambda/2$ -mode \rightarrow screw out (loosen)



fig.2: $\lambda/4$ -mode \rightarrow screw in