

Adjusting bathing platform linear drives

A transom bathing platform malfunction sometimes may result from a lack of parallel movement of the rams.

This can happen if the technical inspection of the boat is not been carried out periodically by a professional (first service after ½ year) to align and synchronize the drives after the materials settled and the yacht was rigged.

The two electrical drives do not work exactly parallel as long as they are not lined out and synchronized correctly. This process is carried out during production of a Bavaria Sailing Yacht, but after a few months the components have settled and should be lined out again once more. This is one of the reasons why Bavaria initialized the periodical service.

If the drive rods are not lined out and synchronized correctly this can eventually lead to a difference in power consumption between the drives which may result into shutdown of the electronic control because of higher ampere than the end switch is tolerating as a result of the two drives working against each other. This means that you push the button to open the transom and after moving a few centimeters (inch) the bathing platform stops. In that case you can open the platform by pushing the button in the opposite direction (up) shortly until the bathing platform moves up a fraction and then continue to push the button down. Eventually this process has to be repeated to fully open the platform. This is to be understood as a compromise until the installation is lined out and synchronized correctly.

This is not a construction based failure. The cases from which we know are limited and usually appear on those ships where the periodical qualified service has not been carried out. If you only look at the expressions in an internet forum it seems like many people have the same problem, but in fact ONLY the people who have that problem are reacting there. The majority of Bavaria owners who's bathing platforms are working properly usually do not respond in public to tell that their material is doing fine.

In most cases the following advice cures the unwanted stopping of the platform while you push the up/down button.

- 1 Take the rings and the bolts out of the outer ends of the drive while the platform is open (horizontal).



- 2 Push the button to let the drives completely go out until they get stopped by the end shut off.
- 3 Turn the thinner end rods clockwise (in) or anticlockwise (out) until the bolts fit freely into their holes at the fittings on top of the bathing platform.
- 4 If there is not enough way you can also adjust the distance on the other end where the electric drives are connected to the cockpit floor.
- 5 Put the bolts and rings back and make sure the bolts can be moved sideways without resistance (free play).

Additionally the drives may be opened at the electrical motor side (grey cover) and the cover thread and rubber seal can be reprotected with grease to keep moisture out. It is also possible to turnout the smaller end rods of the drives completely to grease the spindles. This should be self evident part of every periodical service of all electrical/mechanical parts, especially when in maritime use.

Another way to improve the function of the platform drives is to adjust the power. The control box for the platform drives has 4 micro switches which can be adjusted from 4.5 to 5.0 ampere closing (up) power. This might be a possibility in colder surroundings or in the colder season when the mechanical parts and grease create more resistance.

Please refer to the following diagram for adjustments:

Segelboot	Schalterstellung					Ausgang Motorhaube Plattform					Aus
	S	1	2	3	4	Auf	tv	Zu	ms	ms	
	A	A	A	A	A	A	ms	A	ms	A	
	0	0	0	0	●	3,3	100	4,5	100	0,2	
	1	0	0	0		3,3	100	4,5	150	0,4	
	0	1	0	0		3,3	100	5,0	100	0,2	
	1	1	0	0		3,3	100	5,0	150	0,4	
	0	0	1	0		3,3	100	5,0	200	0,4	

Translation: Schalterstellung = switch position / Segelboot = Sailboat / Ausgang = Exit / Auf = open / Zu = close

If one wants' to change to a mechanical solution our dealers offer a conversion kit for most models like we offered as standard when electric operation of the bathing platform became an optional feature. Another alternative may be the use of a Pulley (block and tackle) and take out the electric drives.

I hope that this advice will help you to get the platform working properly again. If you have any technical questions please don't hesitate to contact me.

Murphy Mende
Service



Bavaria Yachtbau GmbH
Bavariastraße 1
97232 Giebelstadt
Deutschland
Tel.: +49 9334 942 1920
Fax: +49 9334 942 2885

mmende@bavaria-yachtbau.com
www.bavaria-yachtbau.com

Registergericht Würzburg HRB 2565
Geschäftsführer:
Dr. Jens Ludmann
Jay Bratz

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