

STEERING GEAR SERVICE NEWS

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SUBJECT : Vibration of Torque Motor Knob

- 1、We know our torque motor knob vibrates, in very rare cases though. But because torque motor is designed to operate only after receiving signal from M/S Auto-Pilot Maker, the torque motor itself does not operate on its own nor generate vibration either, and therefore, the motor is not provided with any controls to adjust such irregular movements. The phenomenon the motor knob vibrates is solely due to effect of signals coming from M/S Auto-Pilot Maker.

In the case where the torque motor knob vibrates, it is necessary to suppress the vibration of the knob by adjusting gain that is aimed to adjust response sensitivity of the torque motor of control AMP panel located inside the control box installed in steering gear room by M/S Auto-Pilot Maker.

Please contact M/S Auto-Pilot Maker for getting information on adjusting method of the gain aimed to adjust torque motor response.

For your information, control box manufactured by M/S Auto-Pilot Maker and our torque motor are corresponding with the same machine. Therefore, because a certain torque motor receive signals from the identical control box alone even after changing the system at M/S Auto-Pilot Maker, the knob vibration can not be suppressed unless gain of the control box is adjusted on the same side where knob is vibrating.

- 2、When torque motor knob vibrates, spool of regulator connected to the torque motor would be forced to move violently as well, causing pressure reduction of servo pump due to volume change inside the regulator and causing pointer of the pressure gauge of the servo pump vibrates as well. Because the pointer of the pressure gauge for the servo pump affect the pressure gauge to malfunction, it is necessary to make immediate adjustments on torque motor gain by the hands of M/S Auto-Pilot Maker as mentioned above.

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