CONNECTBOX INTEGRATION & DISPLAY OPTIONS - UPDATED

PRODUCT SEAKEEPER 2, SEAKEEPER 3, SEAKEEPER 5/6, SEAKEEPER 9, SEAKEEPER 18

OVERVIEW

Seakeeper is introducing the ConnectBox as the new control interface for the Seakeeper 2, Seakeeper 3, Seakeeper 5/6, Seakeeper 9, and Seakeeper 18. The Seakeeper ConnectBox will replace the current 5" Touch Screen Display as the standard controller for these Seakeeper models, just as it functions on the Seakeeper 1 today. Therefore, the 5" Touch Screen Display will be removed from the standard scope of supply. This Product Update Bulletin outlines the benefits, display options, connection requirements, and relevant drawings for the Seakeeper ConnectBox integration on the relevant models.

Due to supply constraints, we now anticipate integrating the ConnectBox onto the Seakeeper 2 and Seakeeper 3 in Q1 2023. The Seakeeper 6, Seakeeper 9, and Seakeeper 18 will follow in Q3/Q4 2023. The exact timing and serial numbers for introduction of the ConnectBox on the affected models will be communicated at least 3 months prior to the production cut-in.

CONNECTBOX BENEFITS

The ConnectBox will be integrated into the cover of each Seakeeper model and acts as a connection gateway that enables the gyro to communicate with third-party devices, providing the following benefits to installers:

- Eliminates the Seakeeper display from the installation process, providing for a cleaner dashboard and integrated display functionality with compatible onboard MFDs.
- Interfaces with the Seakeeper Service Tool, a secure diagnostics tool that enables data collection for Seakeeper troubleshooting.
- Provides circular (Blackbox) logging capability by maintaining a running log of the CAN traffic triggered by alarm codes, removing the need to replicate or simulate alarm codes for troubleshooting.
- Push-button control interface located on Seakeeper unit, with option for remote mount.
- Improves third-party compatibility/access for third-party platforms via HTML and NMEA 2000.



Figure 1: Seakeeper ConnectBox Interface

An optional ConnectBox Helm Mounting Kit (P/N 90558) is available for remote mounting. The Seakeeper 5" Touch Screen Display will still be available as an option and is compatible with the ConnectBox interface.

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CONNECTBOX CONNECTION REQUIREMENTS

The ConnectBox requires a connection to a compatible display and the vessel's NMEA 2000 backbone with an active GPS signal for Seakeeper operation. The display options for the ConnectBox are as follows:

- Ethernet connection to a Seakeeper-compatible multi-function display (MFD). Compatible devices and ethernet cable part numbers are listed in the following section.
- A Seakeeper 5" Touch Screen Display.

Connection to an active NMEA 2000 compatible GPS signal is required on the vessel's NMEA 2000 backbone to operate the Seakeeper. If no GPS signal is detected, a warning (Code 131) will be present on the Seakeeper App or Display, but the unit will still spool-up to its rated RPM. Seakeeper or OEM Commissioning can be completed without a GPS signal and the Code 131 can be ignored during the commissioning process by navigating away from the Home Screen to the Info or Service screens as needed, see Seakeeper Commissioning Form. This applies to commissionings being done indoors or for boats built without electronics.

Compatible MFDs are recommended over Seakeeper's 5" Touch Screen Display as they also provide the required GPS connection, among broader features and functionality. Garmin, Raymarine, and Navico all offer compatible systems starting below $700.

DISPLAY OPTIONS

The following figures provide an overview of the two primary display options for the Seakeeper ConnectBox. Refer to the ConnectBox Generic Wiring Diagram (90663) for detailed display wiring and the Model Specific Cable Block Diagrams will be circulated prior to the production cut-in.

COMPATIBLE MFD OPTIONS

The following MFD systems are currently compatible with the Seakeeper ConnectBox and can be connected as shown in Figure 1:

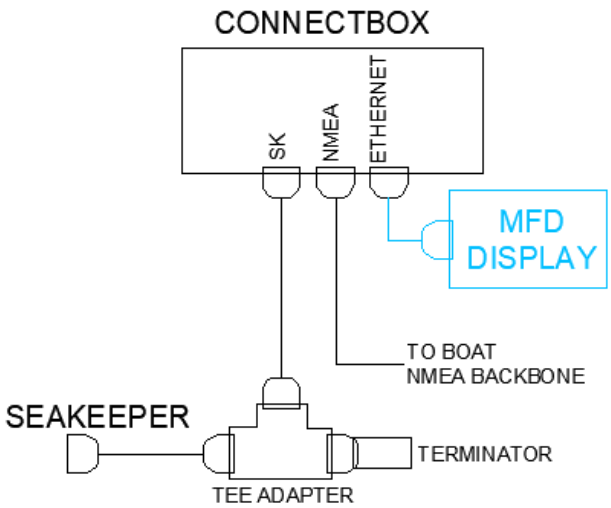


Figure 2: ConnectBox to Compatible MFD Connection

1. Compatible Garmin MFDs, refer to Technical Bulletin 90478:
    a. GPSMAP Series 84XX, 86XX, 7X2 Plus, 7X2xs Plus, 9X2 Plus, 9X2xs Plus, 12X2 Plus, and 12X2xsv Plus series units.
    b. One Helm is required for Garmin and Seakeeper compatibility.
    c. Garmin Ethernet Wire Harness Cable Assembly, Seakeeper P/N 20373, required.

2. Compatible Raymarine MFDs, refer to Technical Bulletin 90479:
    a. Axiom, Axiom Pro, and Axiom XL series units.
    b. Raymarine Ethernet Cable Assembly, Seakeeper P/N 20380, required.

3. Compatible Navico MFDs (includes Simrad, Lowrance and B&G) refer to Technical Bulletin 90480:
    a. Simrad: NSO Evo2, NSO Evo3, NSO Evo3S MFD, NSO Evo3S MPU, NSS Evo3, NSS Evo3S, GO7 XSR, GO9 XSE, and the GO12 XSE series units.
    b. Lowrance: Elite FS, HDS Carbon, and HDS Live series units.
    c. B&G: Vulcan 7, Vulcan 9, Vulcan 12, Zues3. Zues3S, Zues3 Glass Helm, Zues3 Glass Helm MFD, and the Zues3 Glass Helm MPU series units.
    d. Navico Ethernet Wire Harness Cable Assembly, Seakeeper P/N 20346, required.

SEAKEEPER 5” TOUCH SCREEN DISPLAY

The Seakeeper 5” Touch Screen Display Kit must be purchased as an accessory and installed if the Seakeeper unit is not connected to a compatible MFD, per Figure 2:

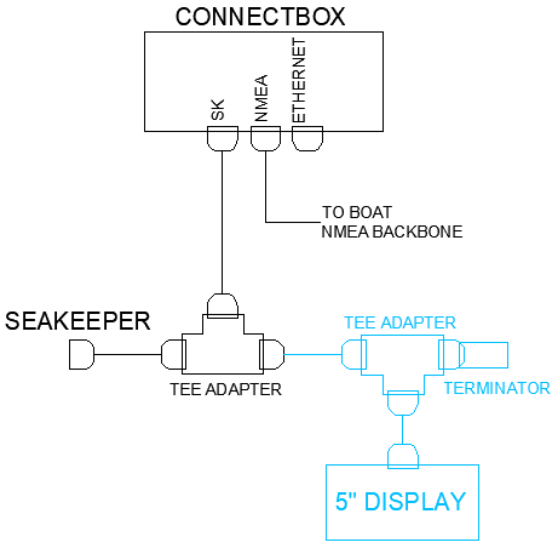


Figure 3: Seakeeper 5” Touch Screen Display Connection

1. For Seakeeper 1, 2, 3, 5/6 models (12 VDC units), use the following display kit:
    a. 5” Touch Screen Display Kit P/N 90467-2SP-10M, includes a 10m (33 ft) connection cable.
2. For Seakeeper 9, 16/18 models (24 VDC units), use the following display kit:
    a. 5” Touch Screen Display Second Station P/N 90467-1SP-25M, includes a 25m (82 ft) connection cable.

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SEAKEEPER OPERATION WITHOUT ELECTRONICS

An active NMEA 2000 GPS signal is required for Seakeeper operation with the ConnectBox. If a boat does not have a NMEA 2000 GPS signal available onboard, one must be temporarily installed to operate the Seakeeper for demo purposes. A Seakeeper Commissioning can be done without a GPS signal but does require a compatible display to record the Seakeeper information, the Code 131 can be ignored for the commissioning process, see Seakeeper Commissioning Form. Refer to the following Technical Bulletin for detailed connection options: CONNECTBOX NMEA 2000 CONNECTION REQUIREMENTS (TB 90640).

REVISION	DESCRIPTION OF CHANGES	DATE	APPROVED
2	Updated ConnectBox introduction timeline	11NOV2021	TSW
3	Updated ConnectBox introduction timeline. Add commissioning note.	10MAY2022	DMF