



SIDE-POWER
Thruster Systems

8700

S-linkControl Panel

EN Installation and user's manual v1.0.5

Keep this
manual onboard !



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DO NOT connect any other control equipment to the S-link controlled products except Side-Power original S-link products or via a Side-Power supplied interface product made for interfacing with other controls. Any attempt to directly control or at all connect into the S-link control system without the designated and approved interface, will render all warranties and responsibilities for the complete line of Side-Power products connected void and null.

DECLARATION OF CONFORMITY



We, Sleipner Motor AS
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declare that this product with accompanying standard remote control systems complies with the essential health and safety requirements according to the Directive 89/336/EEC of 23 May 1989 amended by 92/31/EEC and 93/68/EEC.

Product features



Ref:	Pcs.	Parts:
1	1 x	Control panel
2	1 x	Gasket
3	4 x	Screws (A4)
4	4 x	Corner clips

Installation:

Find a comfortable position for the panel where it does not obstruct or are obstructed by other controls. Use the enclosed cut-out pattern to mark the area. Cut out the circular area as shown on pattern.

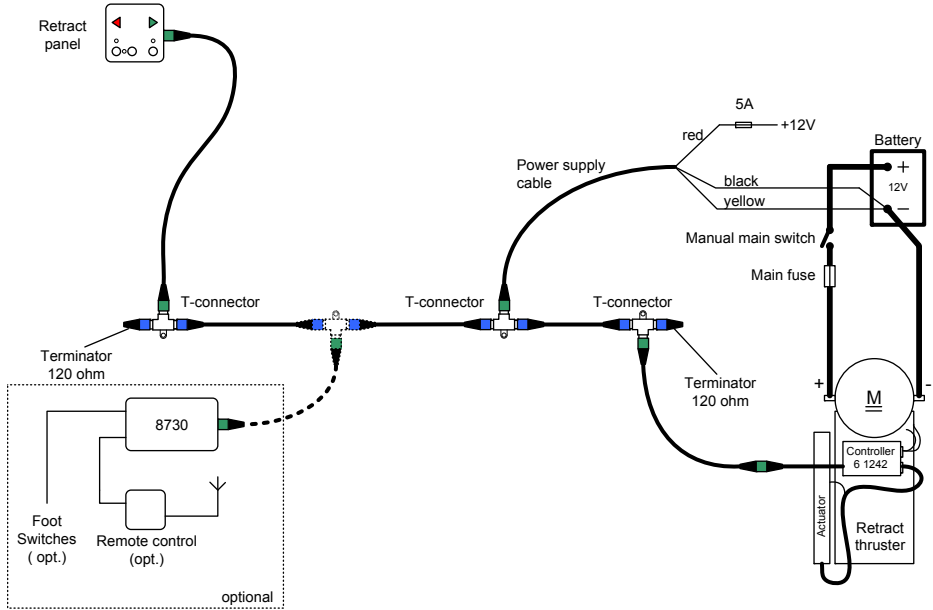
If the front surface around your cut out is jagged or chipped, use a sealant to assist the gasket.

- A Put the gasket (2) in its designated track in the back face of the panel (1)
- B Plug the S-link Spur cable into the connector at the rear of panel.
Twist the locking ring on the connector clockwise to secure connector.
- C Put the panel (1) in place and screw in and tighten the four screws (3)
- D Press gently each of the four corner clips (4) into their corner slot

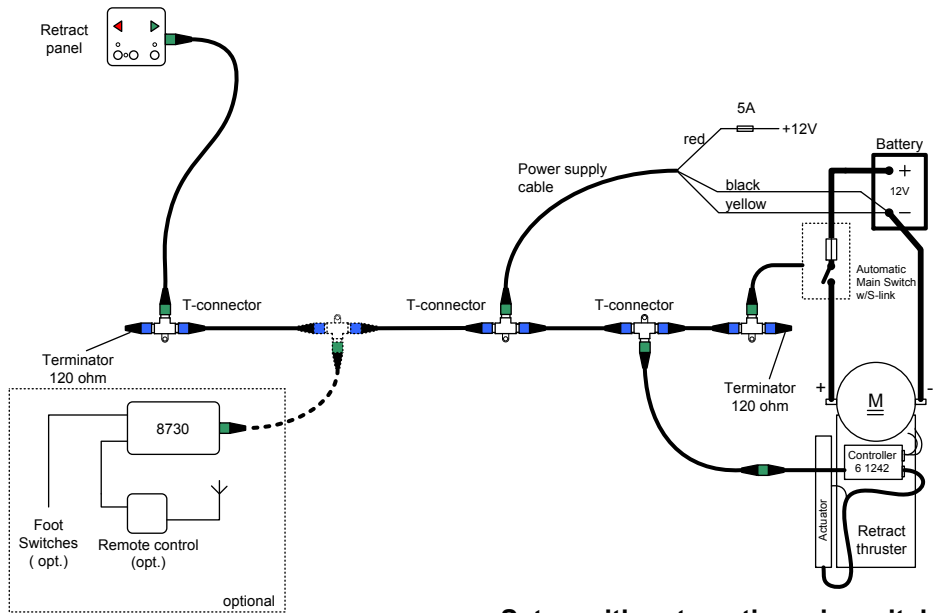
Important !

This panel will only work with Side-Power electric retractable thrusters with a S-link control system. This panel is waterproof from the front side when correctly installed. However, you must ensure that it can never be submerged in water as this might cause a short circuit and malfunction of the thruster system.

S-Link Overview



Setup with manual main switch



Setup with automatic main switch

S-Link Setup Procedure

To control a dual thruster setup on one S-link bus, the panels must be set up to control one thruster each. As factory default, the panel is setup to control the bow thruster. The panel controlling the stern thruster must be set up following the procedure described:

1. Disconnect all S-link equipment concerning the bow thruster (Panel, AMS, Thruster Control Box, Interface etc.) from the S-link bus, and keep all equipment concerning the stern thruster connected.
2. Make sure panel is turned OFF.
3. Press and hold ON button 2 and PORT button at the same time for approx. 3 seconds. The yellow status LED will blink and the red OR green LED turns on (factory default: GREEN - controlling bow thruster).
4. Press STARBOARD button to assign this panel and all connected devices as STERN. RED status LED will light up to confirm setup as stern thruster.
5. Turn off panel, and reconnect all S-link equipment.

The same procedure can be used to match all devices for a single thruster system bow or stern. Just follow steps 2,3,4 and 5. At step 4 press PORT button to assign all the devices connected as BOW. GREEN status LED will light up to confirm setup as bow thruster.

General use and alarm indication

PANEL ON: push both "ON" buttons simultaneously, thruster deploys.

PANEL OFF: push "OFF" button, thruster retracts.

Operate thruster by pushing red and green arrows.

STATUS/ALARM LEDS:

YELLOW LED solid light means panel is on.

GREEN LED flashes during deploy phase, Solid GREEN LED indicates thruster deployed and ready to operate.

RED LED flashes during retract phase, all LEDs out when panel/thruster is shut down.

If something unexpected happens while deploying/retracting thruster, the LEDs will flash alarm codes according to form on next page.

The panel will shut off automatically if not operated for approximately 6-9 minutes.

Note!

THE MAIN SWITCH MUST BE TURNED OFF IMMEDIATELY WHEN AN IPC ERROR OCCURS TO PREVENT OVERHEATING OF THE MAIN THRUSTER RELAYS!

THRUSTER WILL NOT RETRACT WHILE REVERSING AT "HIGH" SPEED. THIS WILL TRIGGER THE "RETRACT OPERATION OBSTRUCTED" ALARM.

IF AN ALARM IS TRIGGERED, REDUCE SPEED AND PRESS BOTH "ON" BUTTONS SIMULTANEOUSLY BEFORE RETRYING "OFF" BUTTON

Alarm Codes

LED	Panel alarm indication	Failure	Thruster reaction	User action
1	1 flash YELLOW & GREEN - Pause	Thruster, overtemp	Retracts	Turn off panel, wait for 20 mins.
2	2 flashes YELLOW & GREEN - Pause	Thruster, low power	Retracts	Turn off panel, charge batteries.
3	3 flashes YELLOW & GREEN - Pause	Deploy operation obstructed	Retracts	Turn off panel. Go for lower speed/deeper water. Retry.
4	4 flashes YELLOW & GREEN - Pause	SR150000 position sensor fail	Retracts	Position sensor short or open circuit. Check wiring and connection.
5	5 flashes YELLOW & GREEN - Pause	SR150000 solenoid output short circuit, port or starboard.	Retracts	Check solenoid wiring and connection, and check if solenoid is shorted.
6	6 flashes YELLOW & GREEN - Pause	SR150000 motor temp sensor fail	Retracts	Check motor temp sensor, wiring and connection.
1	1 flash YELLOW & RED - Pause	Power failure, Actuator	System shuts down	Turn off panel. Check actuator connections. Retry.
2	2 flashes YELLOW & RED - Pause	Thruster IPC error	Retracts	Turn off panel - thruster must be serviced by authorized personnel.
3	3 flashes YELLOW & RED - Pause	Retract operation obstructed	Aborts retract, deploys and retries to retract 3 times. If operation still is obstructed, retract stops on obstruction	Press both ON-buttons to deploy thruster. Turn Main-Switch off. Remove obstruction.
1	1 flashes YELLOW, GREEN & RED - Pause	Automatic Main Switch Power failure	None	Check power to Automatic Main Switch
2	2 flashes YELLOW, GREEN & RED - Pause	Automatic Main Switch fuse blown	None	Replace fuse on Automatic Main Switch. If new installation, check if input and output is correct connected.
3	3 flashes YELLOW, GREEN & RED - Pause	Automatic Main Switch manual override	None	Pull up Automatic Main Switch
4	4 flashes YELLOW, GREEN & RED - Pause	Panel has no contact with thruster.	None	Turn off panel. Check main switch, fuse, cable connections, cables. Retry.

Note:

Ensure that the dipswitch settings are correct in 150000 control unit. See retract manual for more information.

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