



SIDE-POWER
Thruster Systems

Automatic Main Switch

S-Link

Installation Manual



SLEIPNER MOTOR AS

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Products

SM901970 | 897612 - Auto-Mainswitch 12V
SM901971 | 897624 - Auto-Mainswitch 24V

DECLARATION OF CONFORMITY

MC_0020

 Sleipner Motor AS
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Declare that this product with accompanying standard control systems complies with the essential health and safety requirements according to:

DIRECTIVE 2013/53/EU
DIRECTIVE 2014/30/EU
DIRECTIVE 2014/35/EU

It is the installers responsibility

When installing Side-Power equipment to follow the outlined regulations/ classification rules (electrical/ mechanical) according to international or special national regulations. Instructions in this guide cannot be guaranteed to comply with global electric/ mechanic regulations/ classification rules.

To follow all health and safety laws in accordance with their local outlined regulations/ classification rules.

Before installation, it is important that the installer reads this guide to ensure necessary acquaintance with this product.

The recommendations made in this manual are guidelines ONLY, and Sleipner Motor AS (Side-Power) strongly recommend that before installation, advice is obtained from a naval architect familiar with the particular vessel and regulations/ classifications.

This manual is intended to support educated/ experienced staff and is therefore not sufficient in all details for professional installation. *(NB: These instructions are only general instruction. If you are not skilled to do this work, please contact professional installers for assistance.)*

All electrical work must be done by a licensed professional.

Faulty installation of the tunnel, thruster or panel will render all warranty given by Sleipner Motor AS void.

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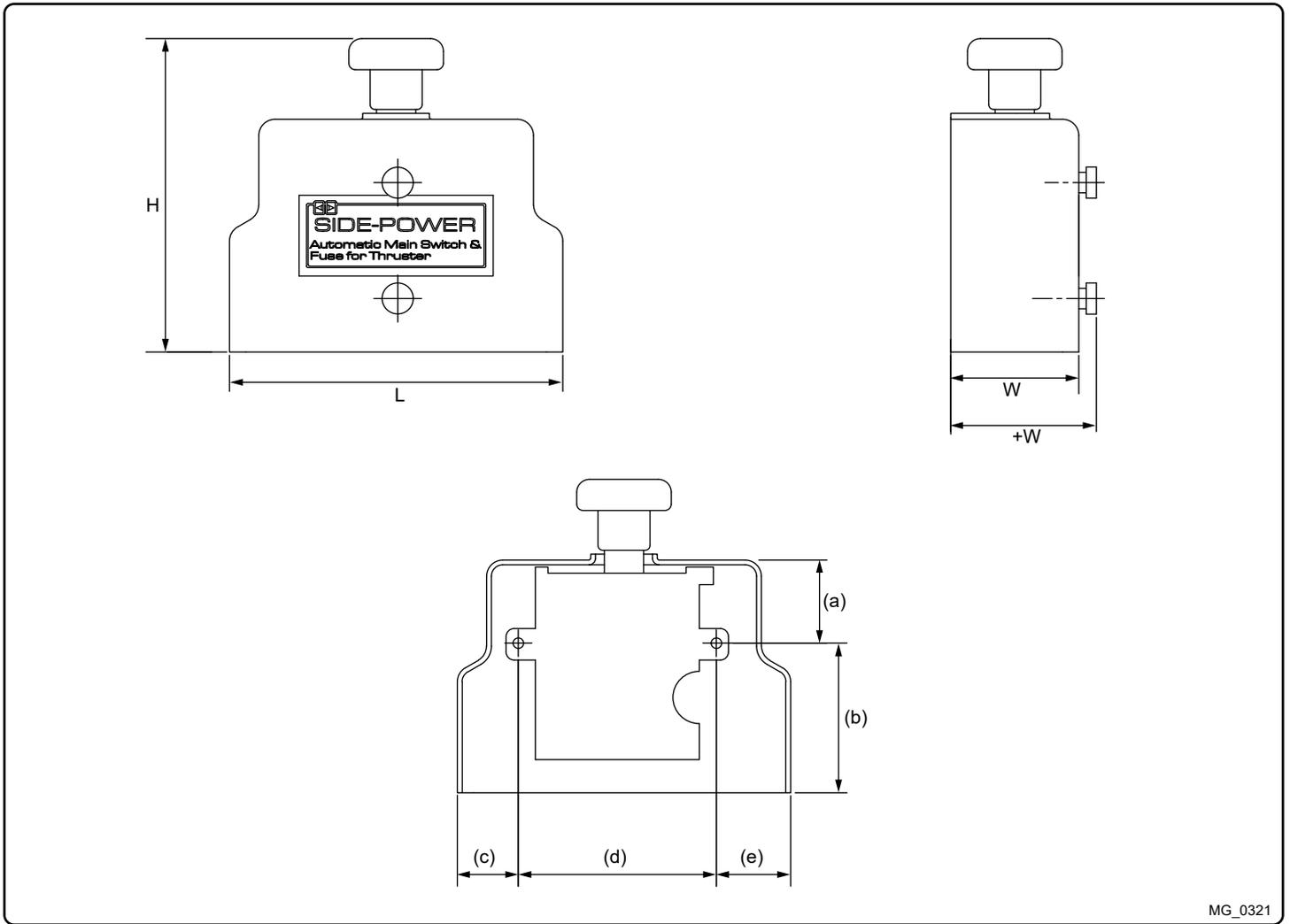
Considerations and Precautions

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IMPORTANT

This manual is to be used in addition to the regular installation manual for the Sidepower thruster. This manual is intended for professionals only.

- Install the automatic main switch as close to the battery(ies) as possible.
- Do not connect the Sleipner automatic main switch with other products than appropriate original Sidepower control panels or other Sidepower control devices. (NB: Sleipner products are specifically designed with a separate fifth control cable for the automatic main switch.)
- The automatic main switch must be installed so that it keeps dry at all times.
- The automatic main switch can NOT be fitted in spaces requiring Ignition protected equipment.
- Ensure to use the correct fuse for the main switch depending on the thruster model installed.



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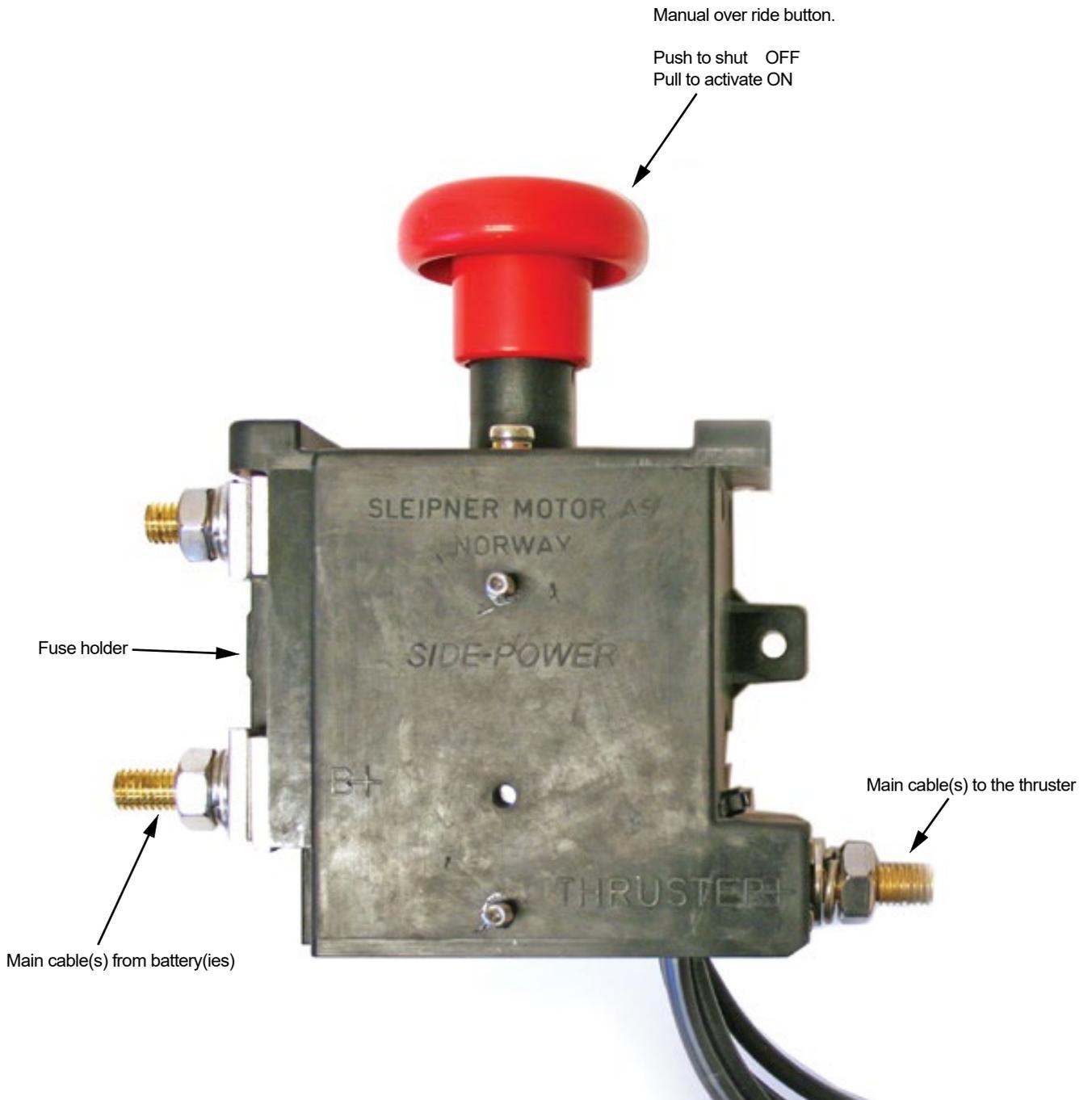


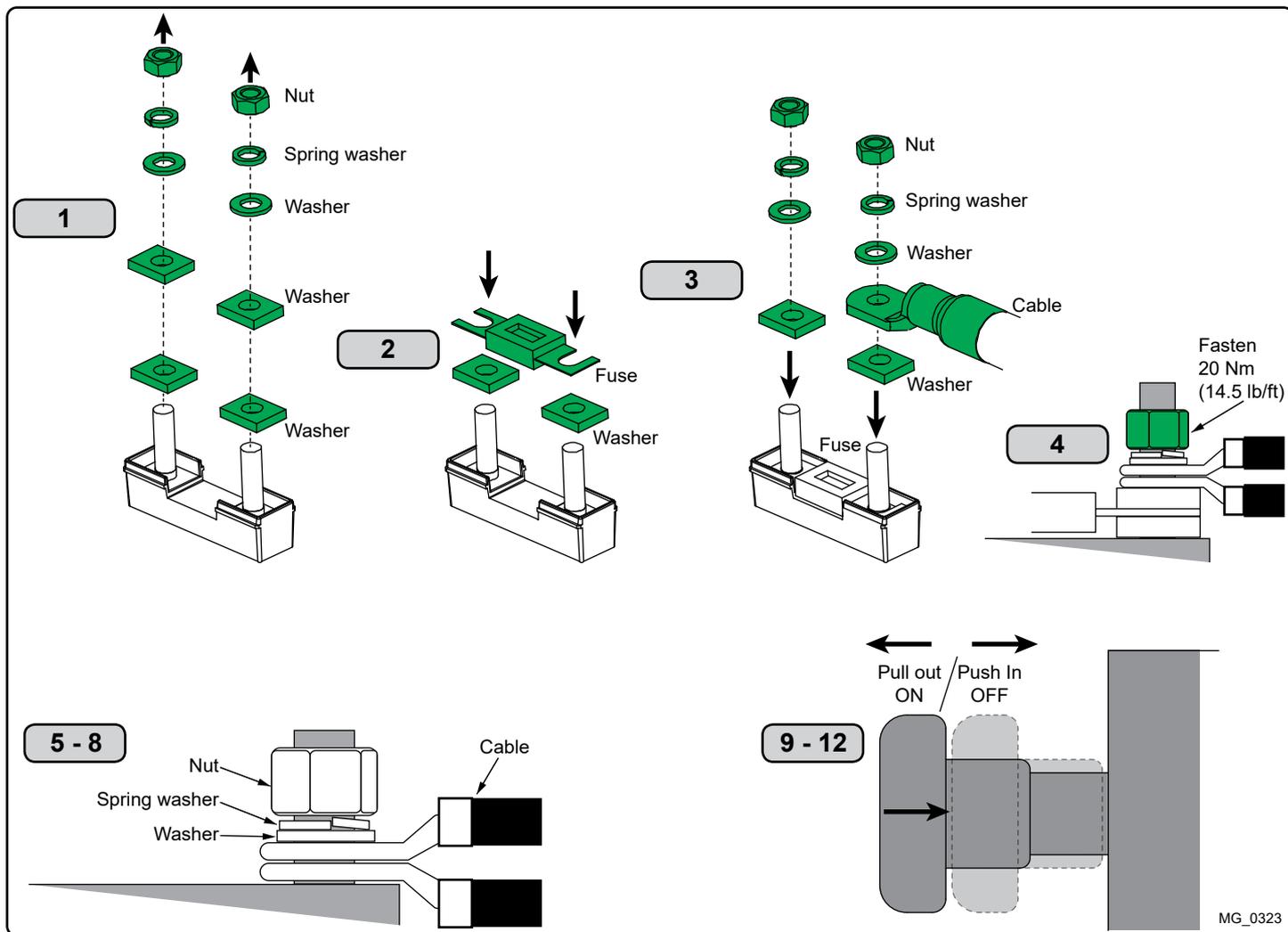
Thruster Measurements

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Measurement code	Measurement description	AMS	
		mm	inch
H	Height	194.3	7.6
L	Length	205	8.1
W	Width	79	3.11
+ W	Width including fasteners	90	3.54
(a)	Attachment hole from the top	51.5	2.03
(b)	Attachment hole from the bottom	92.8	3.65
(c)	Attachment hole from the side	37.5	1.5
(d)	Distance between attachment hole	121.8	4.8
(e)	Attachment hole from the side	45.7	1.8

Automatic Main Switch





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AMS Installation

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! Please refer to the graphic for special considerations relating to your model !

Installing the fuse and battery cables.

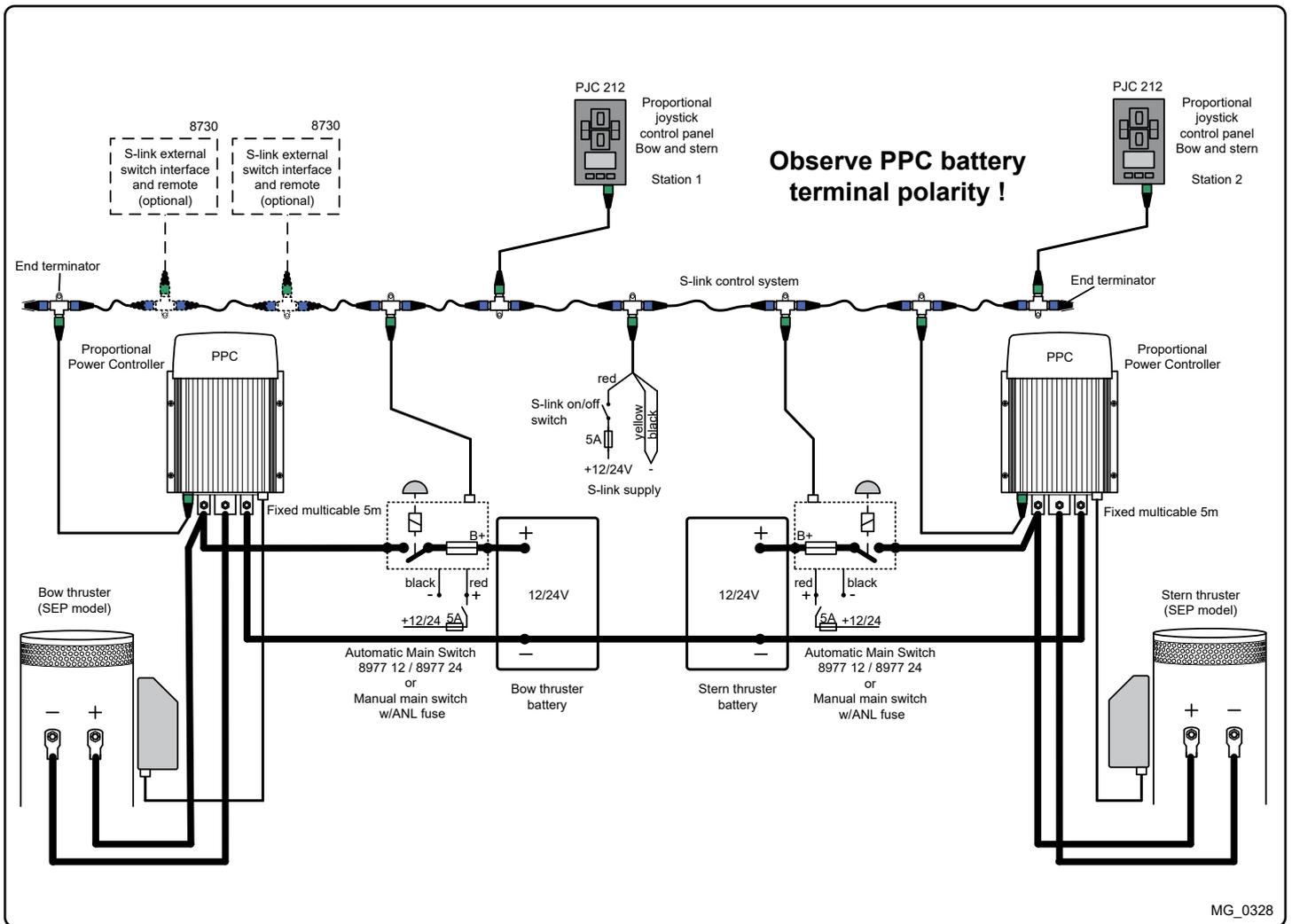
1. Remove the nuts and all the washers.
2. Install the fuse on top of the pre-fitted conductors and washer.
3. Assemble the washers, battery cables and end washer and nuts.
4. Tighten the end nut to torque as shown above. **(NB: Be cautious tightening the brass conductors as they are softer than steel bolts.)**

Fitting the thruster cables.

5. Remove the nuts and washers.
6. Fit the cable/ cables as shown directly onto the pre-fitted conductor.
7. Assemble the washers in the sequence shown.
8. Tighten the end nut.

Manual override button.

9. Pull OUT for ON.
10. Push IN for OFF.
11. Leave the switch in ON position when onboard.
12. Ensure the switch is in the OFF position when leaving the boat for long periods or when installing or servicing the thruster system.



Electrical Installation

! Please refer to the graphic for special considerations relating to your model !

ON/ OFF configuration

Use a 4-lead control cable between the thruster and the automatic main switch. **(NB: Only 3 leads are used, The red wire is not connected into the automatic main switch.)**

Proportional configuration

Use 5-lead control cables between the automatic main switch and control panels. **(NB: use 5-lead Y-connectors to branch off to all controls fitted.)**

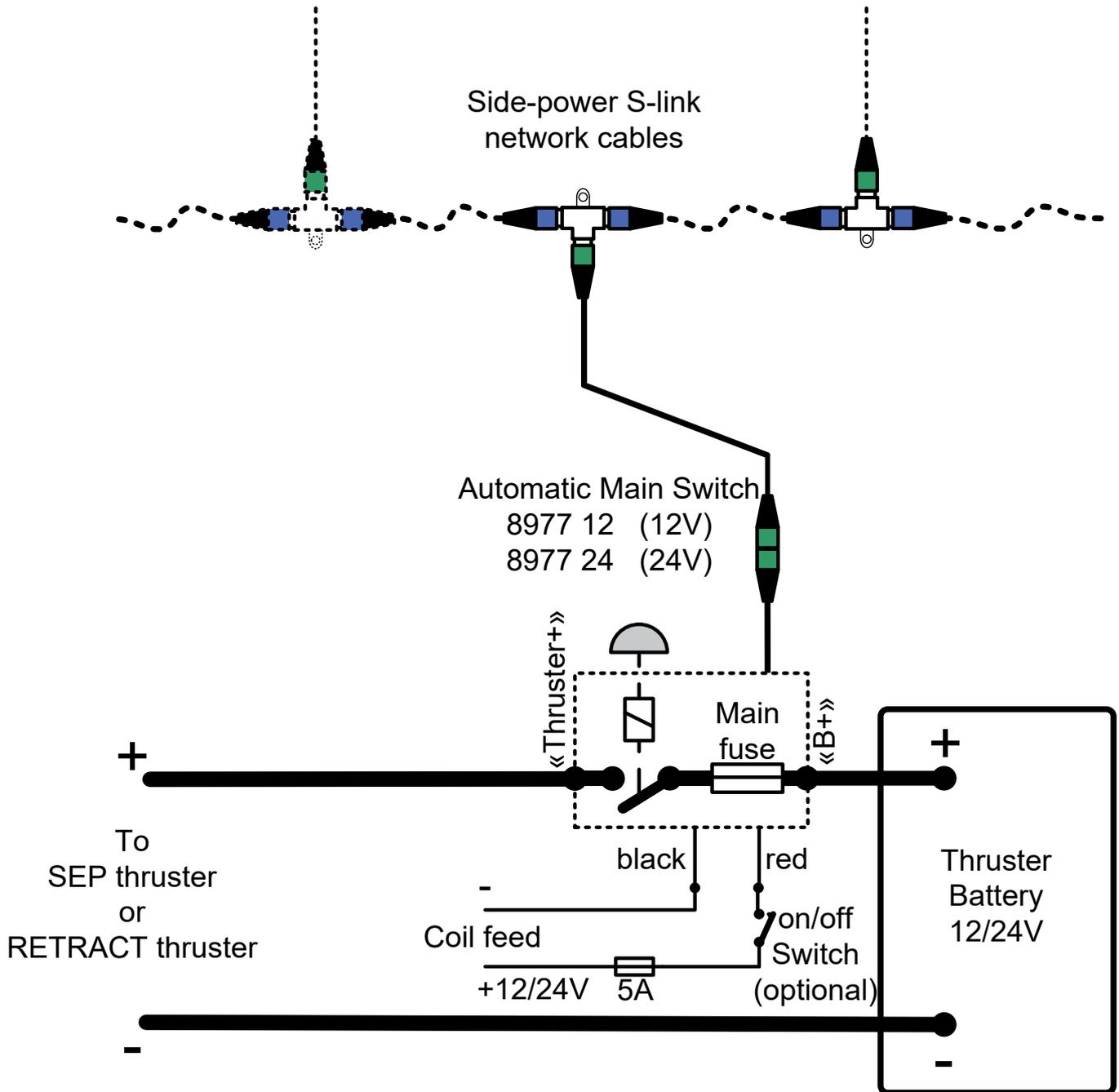
Refer to the table in the thrusters manual for deciding the main cable sizes, the lengths are the total of positive and negative from the battery.

WARNING

Check the following with the main switch is set to off :

- After all electrical connections have been completed check with an ohm meter that there is no electrical connection between
- 1. electro-motor flange and the positive terminal on the motor
- 2. electro-motor flange and the battery negative terminal on the motor

If unsure contact skilled personnel.

**DESCRIPTION OF WIRING DIAGRAMS:**

- Install the correct main fuse depending on thruster model fitted.
- Coil feed can be taken from any 12V or 24V battery source. If the coil is fed from a source that already has a main switch, an on/off switch is not required.
- The S-Link cable must be connected to the S-Link network on the Automatic Main Switch assigned to be bow or stern

IMPORTANT
Fit only one thruster to each automatic main switch.

! Please refer to the graphic for special considerations relating to your model !

Service/ maintenance

on all-electric equipment regularly Ensure:

- Equipment is clean and dry.
- Ensure all cable and other connections are tight and without signs of excessive heat or corrosion.

Troubleshooting

Feedback to control panels:

- Manual override:
 - If the manual override button has been pushed, pull the manual override button to activate.
- Fuse is blown:
 - Replace the fuse or check if the main cable from the battery and main cable to the thruster.
- Communication fail:
 - The panel has no communication with the main switch. Check S-link or power connection.
- Power failure:
 - The main switch has no power, Check 5A fuse, power connection and if the main switch has power on the red and black wire.

Read the troubleshooting guide in the thrusters manual.

If you are unable to identify and resolve the problem, contact the nearest Sidepower service point for assistance. Have the notes from your troubleshooting handy to inform the service person of what you have already checked and observed.

For the most up to date documentation, we advise you to visit our website www.side-power.com for the spare parts list.

1. The equipment manufactured by Sleipner Motor AS (The "Warrantor") is warranted to be free from defects in workmanship and materials under normal use and service.
2. This Warranty is in effect for of two years (Leisure Use) or one year (Commercial use) from the date of purchase by the user. Proof of purchase must be included, to establish that it is inside the warranty period.
3. This Warranty is transferable and covers the product for the specified time period.
4. In case any part of the equipment proves to be defective, other than those parts excluded in paragraph 5 below, the owner should do the following:
 - (a) Prepare a detailed written statement of the nature and circumstances of the defect, to the best of the Owner's knowledge, including the date of purchase, the place of purchase, the name and address of the installer, and the Purchaser's name, address and telephone number;
 - (b) The Owner should return the defective part or unit along with the statement referenced in the preceding paragraph to the warrantor, Sleipner Motor AS or an authorized Service Centre, postage/shipping prepaid and at the expense of the Purchaser;
 - (c) If upon the Warrantor's or Authorized Service Centre's examination, the defect is determined to result from defective material or workmanship, the equipment will be repaired or replaced at the Warrantor's option without charge, and returned to the Purchaser at the Warrantor's expense;
 - (d) no refund of the purchase price will be granted to the Purchaser, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so. Prior to refund of the purchase price, Purchaser must submit a statement in writing from a professional boating equipment supplier that the installation instructions of the Installation and Operation Manual have been complied with and that the defect remains;
 - (e) warranty service shall be performed only by the Warrantor, or an authorized Service Centre, and any attempt to remedy the defect by anyone else shall render this warranty void.
5. There shall be no warranty for defects or damages caused by faulty installation or hook-up, abuse or misuse of the equipment including exposure to excessive heat, salt or fresh water spray, or water immersion except for equipment specifically designed as waterproof.
6. No other express warranty is hereby given and there are no warranties which extend beyond those described in section 4 above. This Warranty is expressly in lieu of any other expressed or implied warranties, including any implied warranty of merchantability, fitness for the ordinary purposes for which such goods are used, or fitness for a particular purpose, and any other obligations on the part of the Warrantor or its employees and representatives.
7. There shall be no responsibility or liability whatsoever on the part of the Warrantor or its employees and representatives for injury to any person or persons, or damage to property, loss of income or profit, or any other consequential or resulting damage or cost which may be claimed to have been incurred through the use or sale of the equipment, including any possible failure or malfunction of the equipment, or part thereof.
8. The Warrantor assumes no liability for incidental or consequential damages of any kind including damages arising from collision with other vessels or objects.
9. This warranty gives you specific legal rights, and you may also have other rights which vary from country to country.

Area with horizontal dotted lines for writing notes.

Worldwide sales and service



www.side-power.com



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