

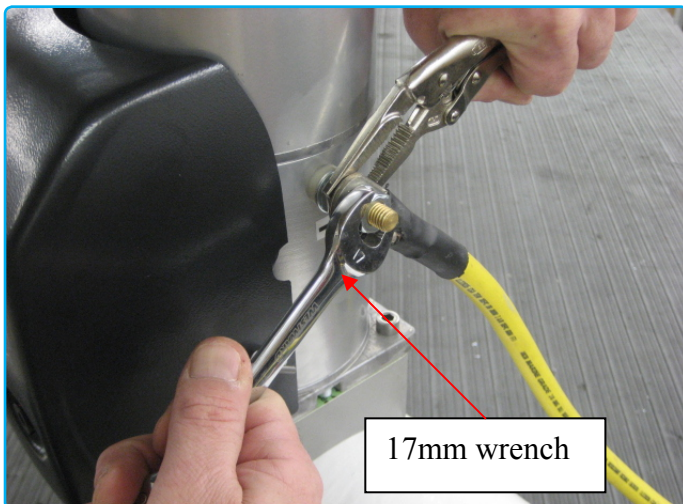
## SE60 & Older SP55S (Standard and IP models) Shear Pin Replacement Instructions.

These Procedures can be completed  
with the vessel in the water.



Please read over the owners manuals and familiarize yourself with the product. There is a trouble-shooting section in each manual. This guide is meant to be a supplement to these providing illustrated instructions for more detailed trouble-shooting.

**Caution: Always ensure the thruster battery switch is turned off, or the thruster fuse is removed before disconnecting the battery cables and removing the thruster motor from the motor bracket.**



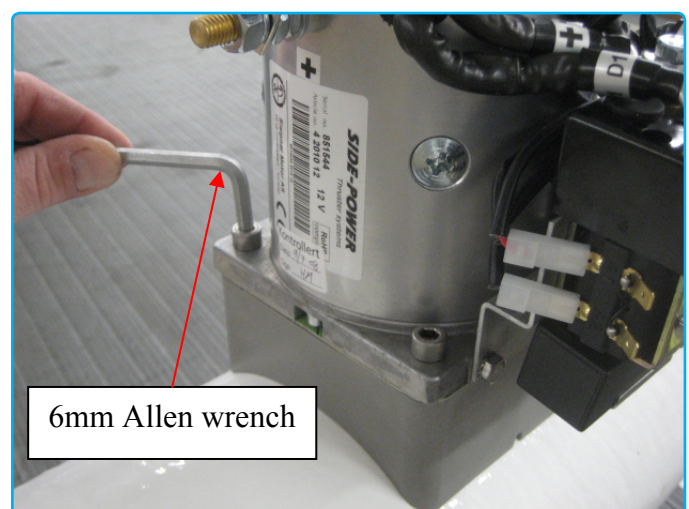
- 1)**  
Remove the positive and negative battery cables.  
Be sure to hold the cable stud jam nut securely when loosening the outer nut with a pair of needle nose vise grips or other suitable tool.



- 2)**  
Unplug the 4-wire control harness.



- 3)**  
Remove the solenoid cover



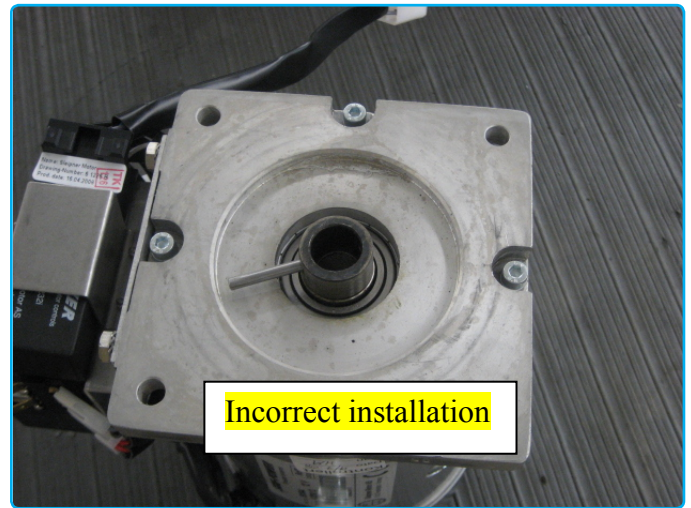
- 4)**  
Remove the 4 motor mounting bolts and lift the motor off the motor bracket.





5)

After removing any remains of the old shear pin, install new shear pin smooth end first leaving the wider "flared" end to be hammered into place. The pin should slide in about  $\frac{3}{4}$  of the way by hand.

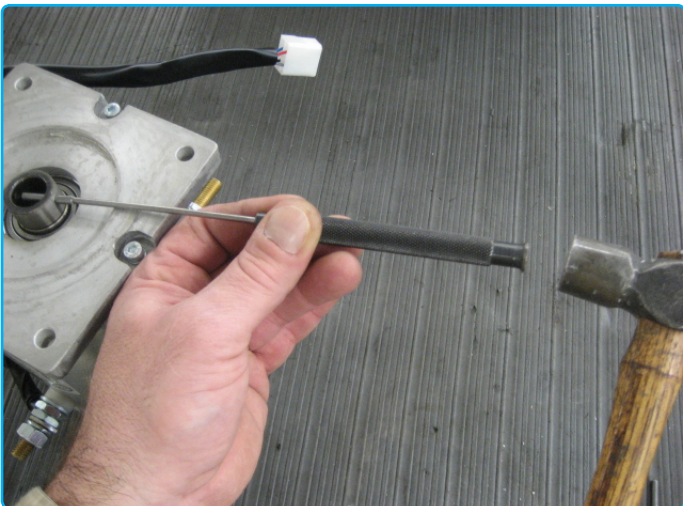


Incorrect installation

6)

**Note:** One hole in the motor shaft is larger than the other. The shear pin should be installed into the larger hole and then hammered into the smaller hole.

The pin will not install properly into the smaller hole as shown here.



7)

Using a pin punch, hammer the shear pin in until fully seated.



8)

Properly seated shear pin

9)

Re-install motor by reversing the above steps.

**Important:** When re-installing the battery cables, ensure the jam nut is held securely when tightening the outer nut as detailed in step 1.



## Argentina

Trimer SA  
Buenos Aires  
Tel: +54 11 4580 0444  
Fax: +54 11 4580 0440  
www.trimer.com.ar  
trimer@trimer.com.ar

## Australia

AMI Sales  
Freemantle, WA  
Tel: +61 89 331 0000  
Fax: +61 89 314 2929  
ami@amisales.com.au

## Austria

G. Ascherl GmbH  
Hard, Bregenz  
Tel: +43 5574 899000  
Fax: +43 5574 89900-10  
www.ascherl.at  
office@ascherl.at

## Benelux

ASA Boot Electro  
Watergang  
Tel: +31 20 436 9100  
Fax: +31 20 436 9109  
www.asabootelectro.nl  
info@asabootelectro.nl

## Brazil

Electra Service Ltda.  
Guaraja  
Tel: +55 13 3354 3599  
Fax: +55 13 3354 3471  
www.electraservice.br.com  
albertoni@electraservice.com.br

## Bulgaria

Yachting BG  
Burgas  
tel: +359 56 919090  
fax: +359 56 919091  
www.yachting.bg  
info@yachting.bg

## Canada

Imtra Corporation  
New Bedford, MA  
Tel: +1 508 995 7000  
Fax: +1 508 998 5359  
www.imtra.com  
side-power@imtra.com

## China/Hong Kong

Storm Force Marine Ltd.  
Wanchai, Hong Kong  
Tel: +852 2866 0114  
Fax: +852 2866 9260  
www.stormforcemarine.com  
sales@stormforcemarine.com

## Croatia

AC Yacht & nautical support  
Icici  
Tel: +385 51 704 500  
Fax: +385 51 704 600  
acy@net.hr

## Denmark

Gertsen & Olufsen AS  
Hørsholm  
Tel: +45 4576 3600  
Fax: +45 4576 1772  
www.gertsen-olufsen.dk  
info@gertsen-olufsen.dk

## Finland

Nautikulma OY  
Turku  
Tel: +358 2 2503 444  
Fax: +358 2 2518 470  
www.nautikulma.fi  
nautikulma@nautikulma.fi

## France

Kent Marine Equipment  
Nantes  
Tel: +33 240 921 584  
Fax: +33 240 921 316  
www.kent-marine.com  
contact@kent-marine.com

## Germany

Jabsco GmbH  
Norderstedt  
Tel: +49 40 535 373-0  
Fax: +49 40 535 373-11

## Greece

Amaltheia Marine  
Athens  
Tel: +30 210 2588 985  
Fax: +30 210 2588 986  
www.amaltheiamarine.com  
amalmar@otenet.gr

## Iceland

Maras EHF  
Reykjavik  
Tel: +354 555 6444  
Fax: +354 565 7230  
www.maras.is  
gummi@maras.is

## India

Indo Marine Engineering Co. Pvt. Ltd  
Pune, Maharashtra  
Tel: +91 20 2712 3003  
Fax: +91 20 2712 2295  
siddharth@indogroup-asia.com

## Ireland

Sleipner Motor Ltd.  
South Brent  
Tel: +44 1364 649 400  
Fax: +44 1364 649 399  
andy@sleipner.co.uk

## Israel

Atlantis Marine Ltd.  
Tel Aviv  
Tel: +972 3 522 7978  
Fax: +972 3 523 5150  
www.atlantis-marine.com  
atlantis@inter.net.il

## Italy

Saim S.P.A.  
Assago-Milan  
Tel: +39 02 4  
Fax: +39 02 4  
www.saim-gro

## Japan

Turtle Marine Inc.  
Nagasaki  
Tel: +81 95 840 7977  
Fax: +81 95 840 7978  
www.turtle-marine.com  
info@turtle-marine.com

## Malta

S & D Yachts Ltd.  
Cali  
Tel: +356 21 339 908  
Fax: +356 21 332 259  
www.sdyachts.com  
info@sdyachts.com

## New Zealand

Advance Trident Ltd.  
Auckland  
Tel: +64 9 845 5347  
Fax: +64 9 415 5348  
www.advancetrident.com  
service@advancetrident.com

## Norway

Sleipner Motor AS  
Fredrikstad  
Tel: +47 69 30 00 60  
Fax: +47 69 30 00 70  
www.side-power.com  
sidepower@sleipner.no

## Poland

Taurus Sea Power SP. Z.O.O  
Gdansk  
Tel: +48 58 344 30 50  
Fax: +48 58 341 67 62

## Portugal

Krautli Portugal Lda.  
Lisboa  
Tel: +351 21 953 56 00  
Fax: +351 21 953 56 01  
www.krautli.com  
contact@krautli.pt

## Russia

Standarte  
Starbeyevo  
Tel: +7 495 575 67 23  
Fax: +7 495 575 39 77  
www.standarte.ru  
info@standarte.ru

## South Africa

C-Dynamics  
Cape Town  
Tel: +27 21 555 3232  
Fax: +27 21 555 3230  
www.c-dynamics.co.za  
info@c-dynamics.co.za

## Spain

Imnasa Marine Products  
Girona  
Tel: +34 902 300214  
Fax: +34 902 300215  
www.imnasa.com  
imnasa@imnasa.com

## Sweden

Sleipner AB  
Strömstad  
Tel: +46 526 629 50  
Fax: +46 526 152 95  
www.sleipnerab.se

## Switzerland

Marine Parts Technics AG  
Volketswil  
Tel: +41 1 997 40 90  
Fax: +41 1 997 40 94  
www.marineparts.ch  
info@marineparts.ch

## Singapore

Alquest Marketing  
Singapore  
Tel: +65 6749 9359  
Fax: +65 6749 9360  
www.alquest.com.sg  
alquest@singnet.com.sg

## Singapore/Malaysia/Indonesia/Vietnam/Phillipines

OK-Maritime Pte Ltd  
Singapore  
Tel: +65 9669 8051  
Fax: +65 6769 0507  
www.ok-maritime.com  
sales@ok-maritime.com

## Taiwan

Mercury Marine Supply  
Kaohsiung  
Tel: +886 7 3317 293  
Fax: +886 7 3314 232

## Turkey

Denpar Ltd.  
Istanbul  
Tel: +90 212 285 0334  
Fax: +90 212 285 0311  
bilgebay@superonline.com

## UK

Sleipner Motor Ltd.  
South Brent  
Tel: +44 1364 649 400  
Fax: +44 1364 649 399  
andy@sleipner.co.uk

## United Arab Emirates

Teignbridge Propellers & Marine  
Equipment Co. Ltd.  
Dubai  
Tel: +971 4 324 0084  
Fax: +971 4 324 0153  
teignpro@emirates.net.ae

## USA

Imtra Corporation  
New Bedford, MA  
Tel: +1 508 995 7000  
Fax: +1 508 998 5359  
www.imtra.com  
side-power@imtra.com

## ALL OTHERS:



Sleipner Motor AS  
P.O. Box 519,  
N-1612 Fredrikstad, Norway  
Tel: +47 69 30 00 60  
Fax: +47 69 30 00 70  
sidepower@sleipner.no  
www.side-power.com