

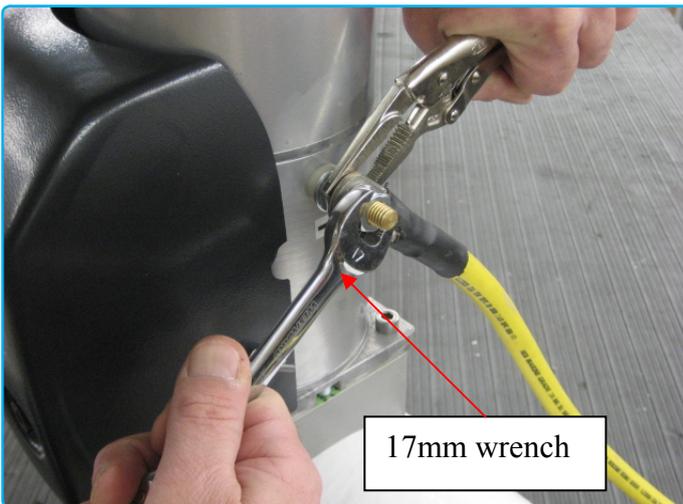
SE60 & Older SP55S (Standard and IP models) Shear Pin Replacement Instructions.

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.



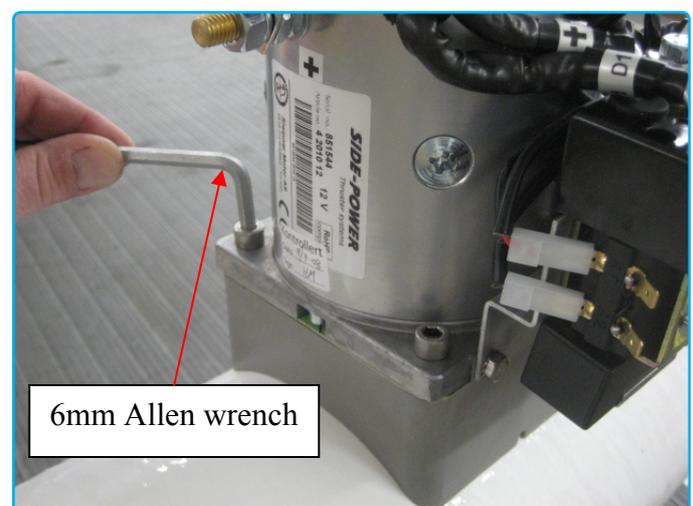
1)
Remove the positive and negative battery cables. Be sure to hold the cable stud jam nut securely when loosening the outer nut with a pair of needle nose vise grips or other suitable tool.



2)
Unplug the 4-wire control harness.



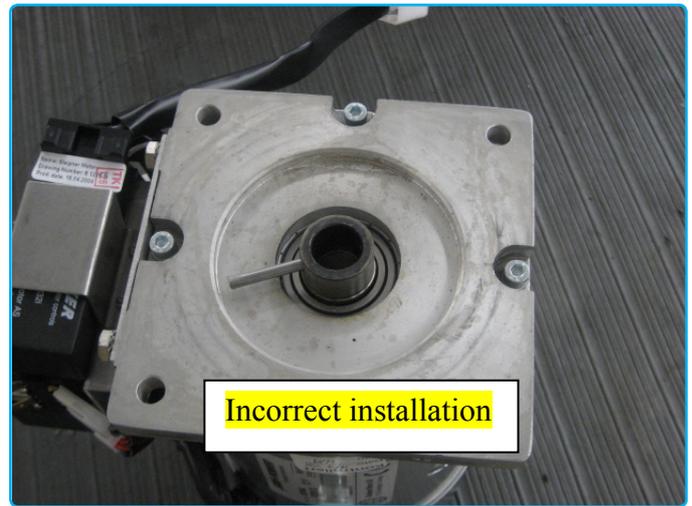
3)
Remove the solenoid cover



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.



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.



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