

AC MOTOR DRIVE CABLE REPLACEMENT WORK INSTRUCTIONS



OVERVIEW

The following instructions must be observed if the installer is replacing the Seakeeper supplied Motor Drive Box cables for any AC Seakeeper model (5/6/9/16/18/26/35) to ensure the integrity of the Seakeeper Motor Drive Box. The replacement cable must be the same or equivalent to the Seakeeper supplied cable:




- Pacer Marine, WR 10/5G. Round Boat Cable, Marine, 3x10AWG, UL 1426, Tinned copper stranded, BLK, WHT, GRN.
- The use of Ferrules should be the same or equivalent to Phoenix 3200548, Ferrule, Insulated, 12 AWG, 0.47" Pin Length.
- The terminal stud (for the GRN conductor) should be the same or equivalent to Fastenal 58547, Ring Terminal, 12-10 GA, Size #8, Insul., Blue.

A preferred alternative to replacing the Seakeeper installed cable is to splice the supplied cable, or a junction box can be used to extend the cable length to the desired termination location. This method is preferred to ensure the integrity of the Motor Drive Box is not compromised.

WORK INSTRUCTIONS:

<ol style="list-style-type: none">1. Turn off all Seakeeper circuit breakers. Ensure Seakeeper is isolated from all power sourced.2. Locate Seakeeper Motor Drive Box.	
<ol style="list-style-type: none">3. Remove ten (10) Phillips head screws from cover and remove cover.4. Place cover and screws aside.	

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<p>5. Locate AC INPUT power connection.</p>	
<p>6. Unhook Positive (WH) and Negative (BK) Conductors by lifting orange locking tabs.</p> <p>7. Unscrew Phillips Ground (GN) wire connection.</p>	
<p>8. Disconnect Seakeeper supplied wire from AC INPUT Connections.</p> <p>9. Cut cable ties securing AC Power Cable.</p>	

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10. Loosen cable gland for AC power input cable and remove Seakeeper supplied AC power cable.







11. Install replacement, customer supplied, AC Power cable and secure cable gland on cable.





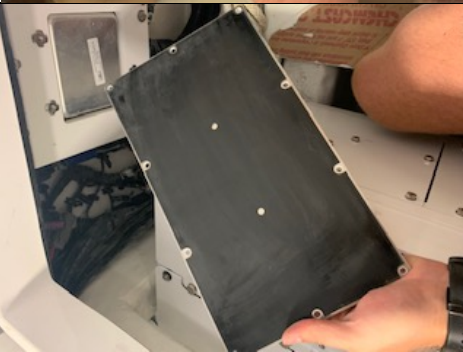

12. Check that cable gland is completely secure and that there is no void between the cable and gland.



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<p>13. Separate the three (3) conductors and strip $\frac{1}{2}$" (13 mm) of insulation from the end of each cable.</p>	
<p>14. Slide ferrules onto Positive (WH) and Negative (BK) bare wire ends. Make sure all strands are inside the metal sleeves.</p> <p>15. Open crimp tool and slide ferrule into the tool opening. Squeeze crimp tool until it is fully closed. Repeat for BK and WH conductors.</p>	
<p>16. Install size #8 terminal stud onto Ground (GN) wire. Ensure all wire strands are inside the stud fitting.</p> <p>17. Using a crimp tool, crimp the terminal stud onto the GN wire.</p>	
<p>18. Check that the ferrules and terminal stud are crimped tightly onto each conductor.</p>	

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<p>19. Insert BK and WH conductor leads into AC Input connector, observe color codes.</p> <p>20. Lock Connector Tug on wire to make sure they are secure.</p> <p>21. Secure GN conductor to terminal using Philips head screw.</p>	
<p>22. Replace Cable ties removed during work.</p>	
<p>23. Retrieve Motor Drive Box cover and clean gasket with a clean rag.</p>	
<p>24. Replace cover on box and orient such that the Warning Label is along the back edge of the Seakeeper unit.</p>	

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25. Screw down cover with original ten (10) Philips head screws; tighten to finger tight. (Do not over tighten by hand tightening, use torque wrench to tighten)



26. Using a small torque tool retighten the cover screws to original factory torque spec of 19 lbs-in (2.2 N-m)



27. Using a permanent marker place witness mark on every screw on cover.

