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***ORCA Receiver
Antenna/Cable
Installation Guide***

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Introduction

This document is provided as a guide when installing or replacing the ORCA® RX antenna and cable (FSJ1XXX). The installation notes provided herein are intended to serve as a guide only. They do not serve as material required for the certification of technicians for the installation, repair or alteration of the ORCA® system.

Materials Supplied:

Line Item	Quantity	Description
1	1	ANC-41SP; Andrew's VER 2 UHF Connector
2	1	Helical antenna (overmolded to bracket)
3	25'	FSJ1XXX Coaxial Cable (overmolded to bracket)
4	2	1 1/4" x 20" SWS Hex Bolt
5	4	1/4" stainless steel flat washers
6	2	1/4" x 20" stainless steel lock nuts

Install Cable

Attach the antenna and overmolded bracket to the antenna foundation using fasteners provided. See figure 1.

Feed cable through stuffing tube. Leave sufficient slack (6"-12") at stuffing tube for cable bend. See figure 2.

Pull cable through stuffing tube and into vessel's interior.

Measure cable to reach RX-10X receiver. Leave sufficient slack (6"-12").

Install Andrew's 41SP UHF Connector (see Attachment 1 on next page). Connect UHF connector to receiver.

Pull cable through stuffing tube and into vessel's interior.

Energize circuit and turn on receiver at power button.

Perform system test:

- » Activate ORCA® transmitter from the bow or stern of the vessel (whichever is further from the receiver antenna).
- » When signal is detected by the receiver, ensure the audible alarm activates and the LCD displays the vessel ID, transmitter ID (serial number), the transmitter battery strength (Good or Weak) and the RSSI (received signal strength indicator).
- » Deactivate transmitter.

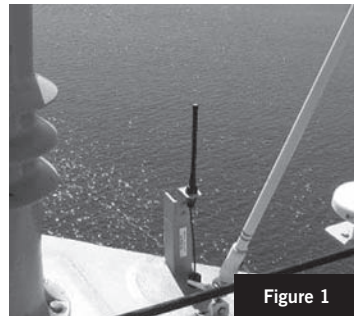


Figure 1

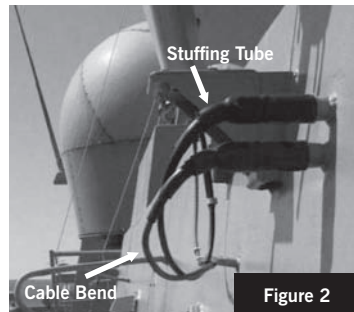


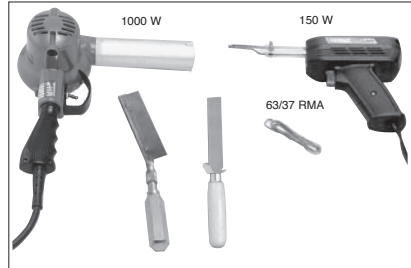
Figure 2

Installation Instructions

UHF Connector for HELIAX[®] FSJ1-50A Coaxial Cable



41SP



FAX-On-Demand: +1-708-873-3614 • North America: 1-800-861-1700

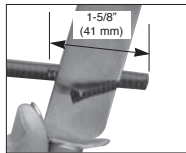
Tips and Techniques (SP50047) available by FAX-On-Demand.
Los consejos prácticos y técnicos (SP50047) pueden solicitarse por fax.

Conseils et techniques (SP50047) disponibles par fax à la demande.
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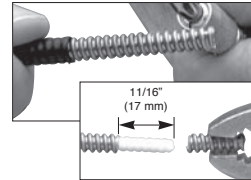
1

Trim cable jacket.
Recortar la envuelta del cable.
Coupez la gaine du câble.
Kabelmantel abziehen.
Retire a capa do cabo.
切整電纜外皮



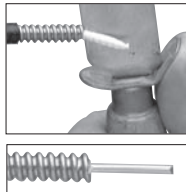
2

Cut outer conductor.
Cortar el conductor externo.
Coupez le conducteur extérieur.
Außenleiter zurückschneiden.
Corte o condutor externo.
切外導體



3

Remove foam and adhesive.
Retirar el material de espuma y el adhesivo.
Enlevez la mousse et l'adhésif.
Verschäumung und Klebeband entfernen.
Remova a espuma e o adesivo.
去除泡沫塑料和粘潔劑



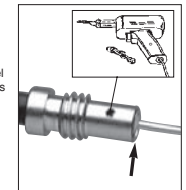
4

Add shrink tube and coupling nut
Añada el tubo corrugado y la tuerca de acoplamiento.
Mettez en place la gaine thermorétractable et l'écrou d'assemblage.
Schrummschlauch überziehen und Klemmutter montieren.
Adicione o tubo de redução e a porca de acoplamento.
加上縮緊套管和連接螺母。



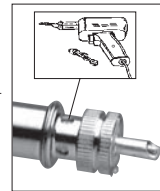
5

Place adaptor flush with outer conductor and solder them together
Coloque el adaptador al mismo nivel que el conductor exterior y suéldelos entre sí.
Alignez l'adaptateur sur le conducteur extérieur et soudez ces deux éléments.
Adapter bündig mit Außenleiter ausrichten und zusammenlöten.
Coloque o adaptador junto ao condutor externo e soldo-os.
將適配器與外導體齊平，並將它們焊接在一起



6

Screw inner connector onto adaptor to a torque value of from 32-40 lb-in. (3.7-4.5 N-m) and solder together.
Atornille el conductor interior en el adaptador, a un par entre 32 y 40 lb-pul o (3.7 y 4.5 N-m) y suéldelos entre sí.
Vissez le conducteur intérieur sur l'adaptateur à un couple de 3,7-4,5 N.m et soudez ces deux éléments.
Innenleiter auf Adapter schrauben, mit 3,7-4,5 Nm anziehen und zusammenlöten.
Atarraxe o condutor interno no adaptador a um valor de torque de 32 a 40 lb-pol. (3.7-4.5 N.m) e soldo-os.
以 32-40 lb-in (3.7-4.5 N.m) 的扭矩將內導體擰至適配器上，然後將它們焊接在一起。



(continued on next page)

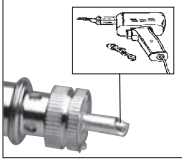
Attachment 1

7

Solder inner connector and outer conductor together
Suelde el conector interior y el conductor interior entre sí.

Soudez les connecteurs intérieur.
Innenleiter zusammenlöten
Solde o conector interno ao condutor interno.

將內接頭和外導體焊接在一起。



8

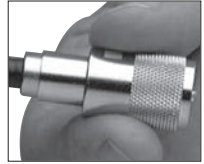
Screw coupling nut beyond threads of inner connector so nut spins freely
Atornille la tuerca de acoplamiento hasta pasar las roscas del conector interior, de modo que la tuerca gire libremente.

Vissez l'écrou d'assemblage au-delà des filets du connecteur intérieur, pour que l'écrou tourne librement.

Klemmutter über das Innenleitergewinde hinaus drehen, so daß sich die Mutter frei dreht.

Rosqueie a porca de acoplamento além da rosca do conector interno para permitir o giro livre da porca.

將連接螺母擰出內接頭螺紋，以使螺母自由轉動。

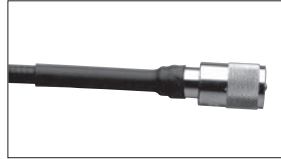


9

Apply heat shrink tube.

Aplicar el tubo de termocongrimiento.
Mettez en place la gaine thermorétractable.
Schrumpfschlauch überziehen.

Aqueça o tubo plástico.
加熱縮緊套管



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