

AP-WRC4 Installation With EV-100 Evolution Autopilot

Assumptions:

- The EV-100 autopilot installation is, or will be installed, in accordance with the Raymarine EV-100 installation manual. As a guide, refer to Figure 1 for a typical EV-100 installation.
- A Raymarine SeaTalk1 to SeaTalk^{ng} converter is, or will be, installed in accordance with the Raymarine SeaTalk1 to SeaTalk^{ng} converter installation manual.
- All required SeaTalk1 to SeaTalk^{ng} conversion parts are present. *(All required parts are included in the Raymarine E22158 converter kit, which is the recommended kit to purchase if there is no existing SeaTalk1 to SeaTalk^{ng} converter installed).*
- The AP-WRC4 is to be installed close to the SeaTalk1 to SeaTalk^{ng} converter.

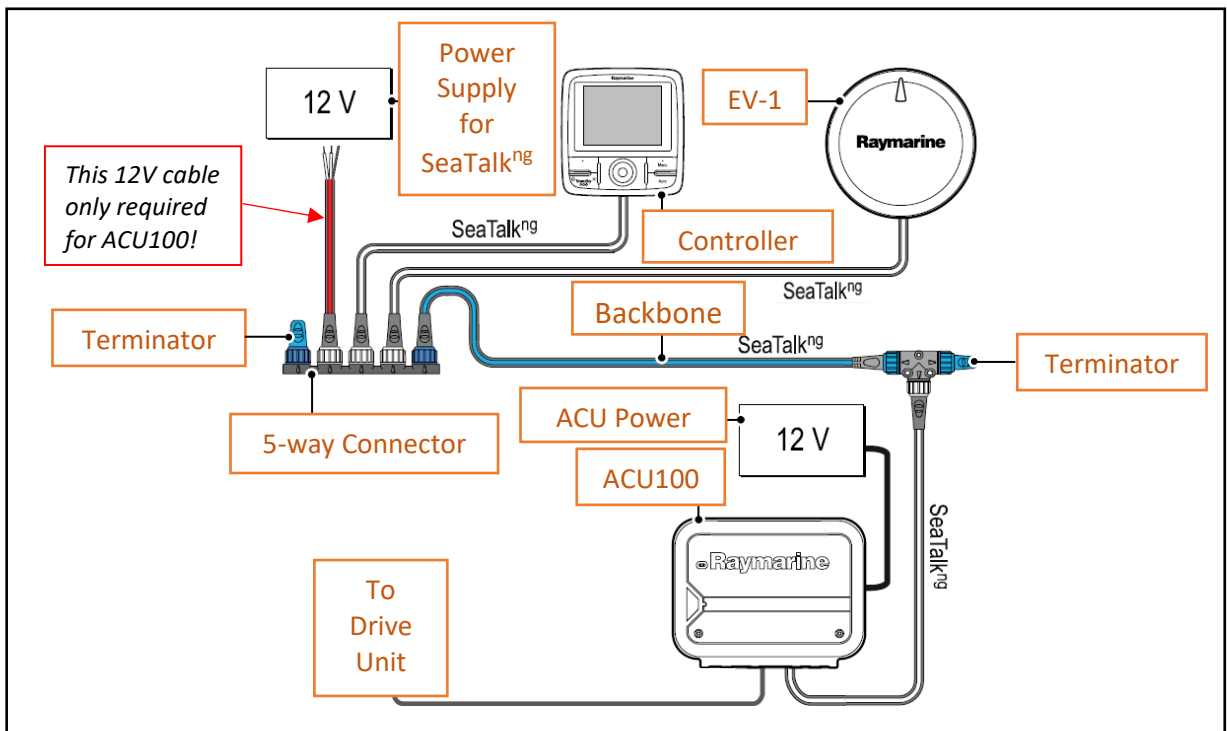


Figure 1 - Typical EV-100 Installation

Steps:


1. Turn off power to the EV-100 and 12V supply cable which supplies the SeaTalk^{ng} backbone.
2. Prepare the SeaTalk1 to SeaTalk^{ng} cable from the E22158 converter kit by cutting off the SeaTalk connector (see Figure 2) and stripping the cable back to expose the red wire, yellow wire and the screen/shield that surrounds them.
(Optional: apply clear heatshrink over the twisted screen/shield and a larger piece of black heatshrink over the cable end to make a neat job).



Figure 2 - SeaTalk Cable

Steps (continued):

- Remove the terminator from the SeaTalk^{ng} backbone 'Tee' connector so that the backbone can be extended.
- Install the terminator that was removed from the 'Tee' connector on one of the blue ports of the SeaTalk1 to SeaTalk^{ng} converter. Refer to Figure 3 for this and subsequent connections.
- Connect one end of a new SeaTalk^{ng} backbone cable to the 'Tee' connector (where the terminator was removed) and the other end to the other blue port on the SeaTalk1 to SeaTalk^{ng} converter.
- Terminate the wires of the SeaTalk cable in the AP-WRC4 terminals as follows:

Wire	Function	Terminal Symbol
Red	+12V	
Yellow	SeaTalk	SeaTalk
Screen/Shield	0V	Screen

- Plug the yellow connector of the SeaTalk cable into the yellow port of the SeaTalk to SeaTalk^{ng} converter.
- Turn on the EV-100 and the 12V supply cable which supplies the SeaTalk^{ng} backbone.
- Check the green light on the SeaTalk1 to SeaTalk^{ng} is on (and flashing periodically).
- Turn on the AP-WRC4 using the rocker switch at the bottom of the base unit.
- Check that the blue 'OP' LED on the AP-WRC4 flashes 3 times after being turned on.
- Check the orange 'ST' LED is off and remains off after 5 seconds. If the 'ST' LED turns on, wait for several more seconds and verify that it eventually turns off.
- To finish off, mount the AP-WRC4 base unit and SeaTalk to SeaTalk^{ng} Converter in accordance with their respective manuals and tidy up the cabling. The AP-WRC4 User Manual is available from the 'Downloads' page at <https://www.madmanmarine.com>

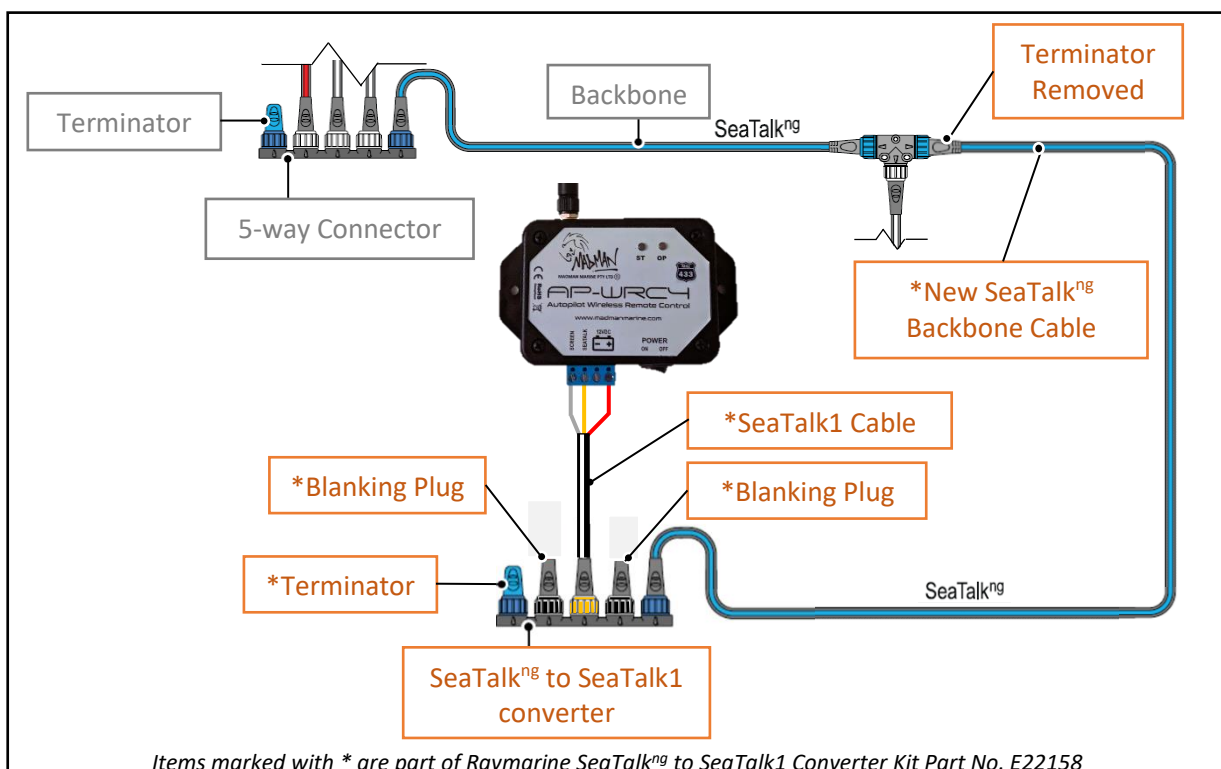


Figure 3 - AP-WRC4 Installation
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