

frequently asked questions

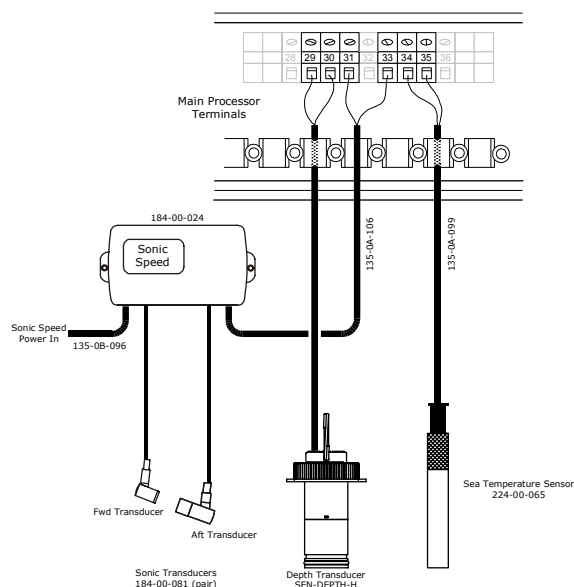
MicroSonic Speed TTL Hardware and Wiring Modifications

This document describes the procedure to modify the MicroSonic Speed Processor (254-00-024) to transmit TTL (5V square wave) boat speed signal.

Procedure

Modifying the MicroSonic processor hardware

- 1) Switch off power to the system electronics.
- 2) Open up the MicroSonic processor by removing the six slot-head screws located on the reverse side of the case.
- 3) Carefully remove the PCB from the white support pillars, by squeezing the tabs, and then sliding the PCB off the support.
- 4) Remove C50 and replace with a shorting link (piece of wire).
- 5) Remove C12 and replace with a shorting link (piece of wire).
- 6) Change R5 from 15k Ω to 100 Ω
- 7) Reassemble the MicroSonic PCB onto the support pillars, ensuring that the contacts engage correctly with the rear-case connector pins, and replace the cover.
- 8) Re-wire the system as detailed below:



TERMINAL	FUNCTION	CABLE and WIRE COLOUR
Depth Transducer		15m cable attached
29	Depth -	Black
30	Depth +	Blue
MicroSonic Speed Signal		15m cable (135-0A-106)
31	Boat Speed +	Red (Sonic Speed Terminal 25)
33	Boat Speed -	Blue (Sonic Speed Terminal 26)
		Screen not connected
Sea Temperature Sensor		9m cable attached
34	Sea Temperature Supply	Red
35	Sea Temperature Input	Green
		Blue not connected

<ENDS>