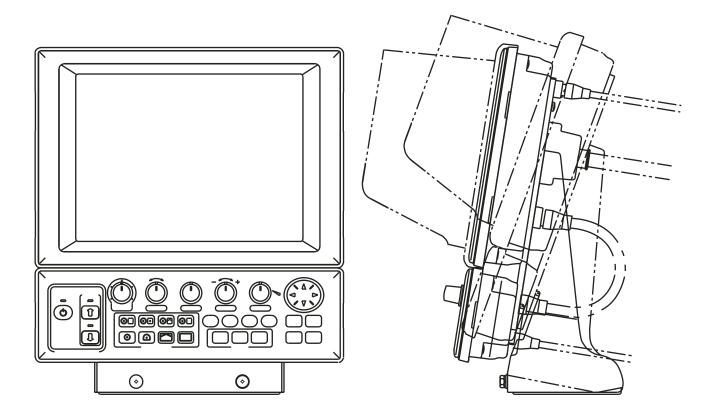
Please read this supplement to the CH270 Manual first.

FURUNO[®] CH270 Searchlight Sonar



Important Technical Installation Information

The following checklist and information sheets are provided to help you efficiently install your CH270 sonar. If this is a high speed vessel, please pay careful attention to the tube length and fairing instructions.

CH270 Installation Supplement Contents

The following checklist and information sheets are provided to help you properly and efficiently install your CH270 sonar. If this is a high speed vessel, please pay careful attention to the tube length and fairing instructions.

Page

- 1-2 Overall installation checklist Please return a completed copy to Furuno U.S.A.
- *3 Fiberglass (FRP) sonar tube installation outline drawing*
- 4-6 High speed hull, sonar tube fairing pictures with comment
- 7 Tank guide assembly installation and adjustment instructions
- 8 Motion sensor mounting, location and longer interconnect cables
- 8 Soundome cover removal and oil installation reminder
- 9 Checking soundome when in drydock

Please feel free to contact us with any questions that you may bave. Additional information such as this may be found on our web site www.Furuno.com.

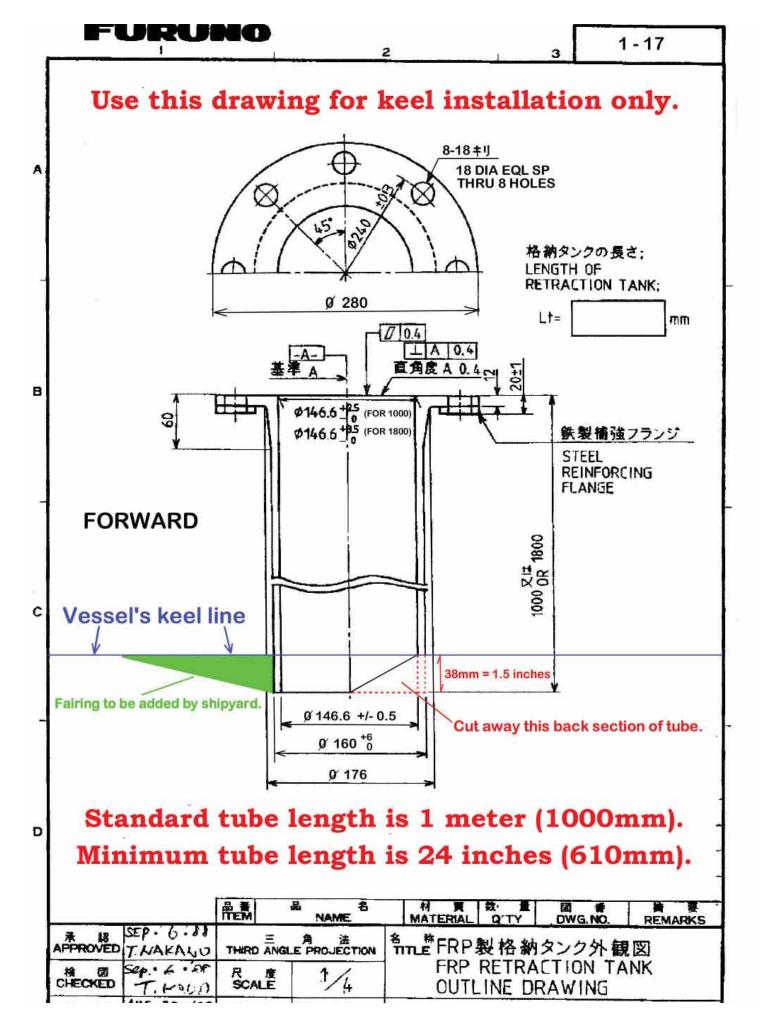
This material is provided to augment, not replace, what is found in your CH270 manuals.

CH270 Installation Check Sheet

Vessel Information		CH270 System Information	
Vessel Name:		CH270 Mo	del:
Туре:	Use:	Serial Number:	
Length:	Registry:	Shaft Travel:	
Operating Speed:	Hull Type:	System Inp	ut Voltage:
Dealer Information			
Dealer Name:			
Address:	State, Zip:		
Installed By:	Location:		
Date:	Location:		
Standard System - MU10			
Are all cables and connection	🖵 Yes	🖵 No	
Is NMEA data connected a	🖵 Yes	🖵 No	
What NMEA devices are co	onnected:		
Has CH252 control head installation & operation been checked?		☐ Yes	🖵 No
Is the unit grounded proper		L Yes	□ No
is the unit grounded proper	·y .		
OR			
Black Box System – VGA 1	Display Check List		
Are all cables and connection	ons tight & strapped?	🖵 Yes	🖵 No
Does the monitor display th	e correct color palette?	🖵 Yes	🖵 No
Are the IF8000 dip switches set correctly?		🖵 Yes	🖵 No
Is NMEA data connected and activated?		🖵 Yes	🖵 No
What NMEA devices are co			
Has CH252 control head installation & operation been checked?		🖵 Yes	🖵 No
Is the unit grounded proper	🖵 Yes	🖵 No	
CH273 Transceiver Unit C		_ 100	
-		🖵 Yes	
Are all cables and connecting	• • • •		l No
Check and note actual input voltage		🖵 Yes	🖵 No
Motion Sensor or Incinon	neter Check List		
Which sensor is being used, BS704 or MS100?		🖵 BS704	❑ MS100
Where is the sensor located?			
Has the sonar been programmed to look for the sensor?		🖵 Yes	🖵 No
Sonar Tube Installation C	heck List		
Was a Furuno supplied sonar tube used?		🖵 Yes	🖵 No
	e sonar tube used?		
-	the sonar tube?		
Where is the sonar tube mo			
Is the sonar tube on or off t	🖵 On	🖵 Off	
Has a sonar tube air venting system been installed?		🖵 Yes	🖵 No
Has a forward sonar tube fa	🖵 Yes	🖵 No	

CH270 Installation Check Sheet - continued

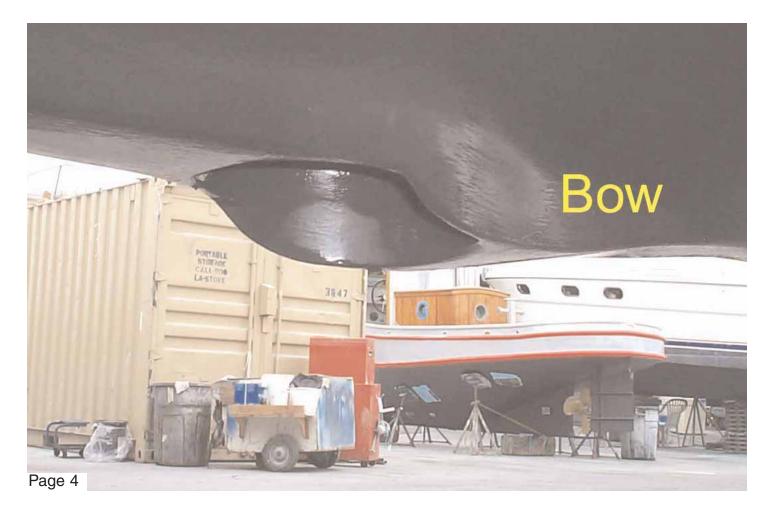
CH181 or CH184 Hull Unit Check List		
Check and note actual input voltage:		
Are all cables and connections tight and strapped?	🖵 Yes	🖵 No
Is the unit grounded properly?	🖵 Yes	🖵 No
Has the soundome been lowered and raised by hand?	🖵 Yes	🖵 No
Have the shaft guides been adjusted for 0.5mm tolerance?	🖵 Yes	🖵 No
Does the shaft have a heading mark inscribed?	🖵 Yes	🖵 No
Is the soundome 1/2" up, in the sonar tube when retracted?	🖵 Yes	🖵 No
Has epoxy been used on shaft threads?	🖵 Yes	🖵 No
Has soundome packing sponge been removed?	🖵 Yes	🖵 No
Was oil added to the soundome?	🖵 Yes	🖵 No
**CAUTION - Do not lay soundome on its side once oil has been added	**	
Are all the soundome Phillips Head screws tight?	🖵 Yes	🖵 No
Have 3 layers of greased cotton packing been used?	🖵 Yes	🖵 No
Is the safety clamp installed and tightened?	🖵 Yes	🖵 No
Accessories Check List - if applicable		
Checked operation of the SC-05WR external speaker?	🖵 Yes	🖵 No
Checked operation of the CH256 handheld remote control?	🖵 Yes	🖵 No
Sea Trial Check List		
Date: Location:		
Operator:		
Sea conditions:		
Maximum detection range for the sea-bottom: Maximum detection range for fish targets:		
Has the sonar picture been checked for alignment?	🖵 Yes	🖵 No
Has the auto-retraction feature been checked?	🖵 Yes	🖵 No
Have the system manuals been given to the operator?	🖵 Yes	🖵 No
Was any hoist movement noted at maximum speed?	🖵 Yes	🖵 No
Operator Training		
Date: Location:		
Trainer:		
Training provided for:		
Necessary Follow-up		
Required for:		
When:		
Warranty Card Completed and Sent to Furuno USA		
Date:		



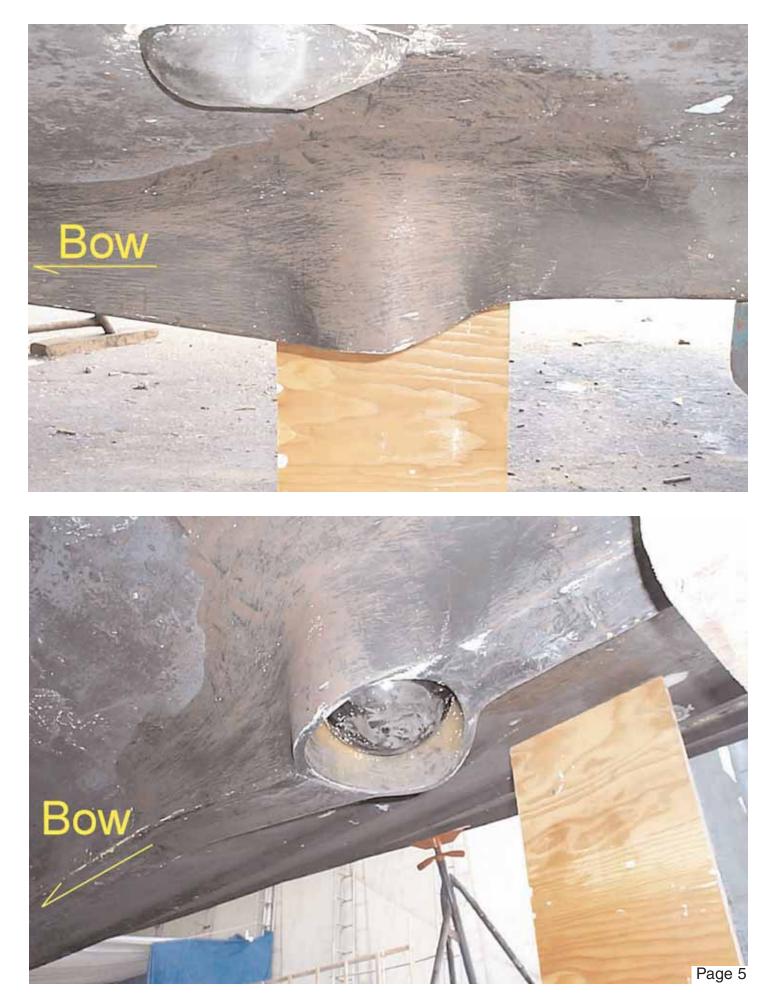
Sonar tube fairings for high speed vessels

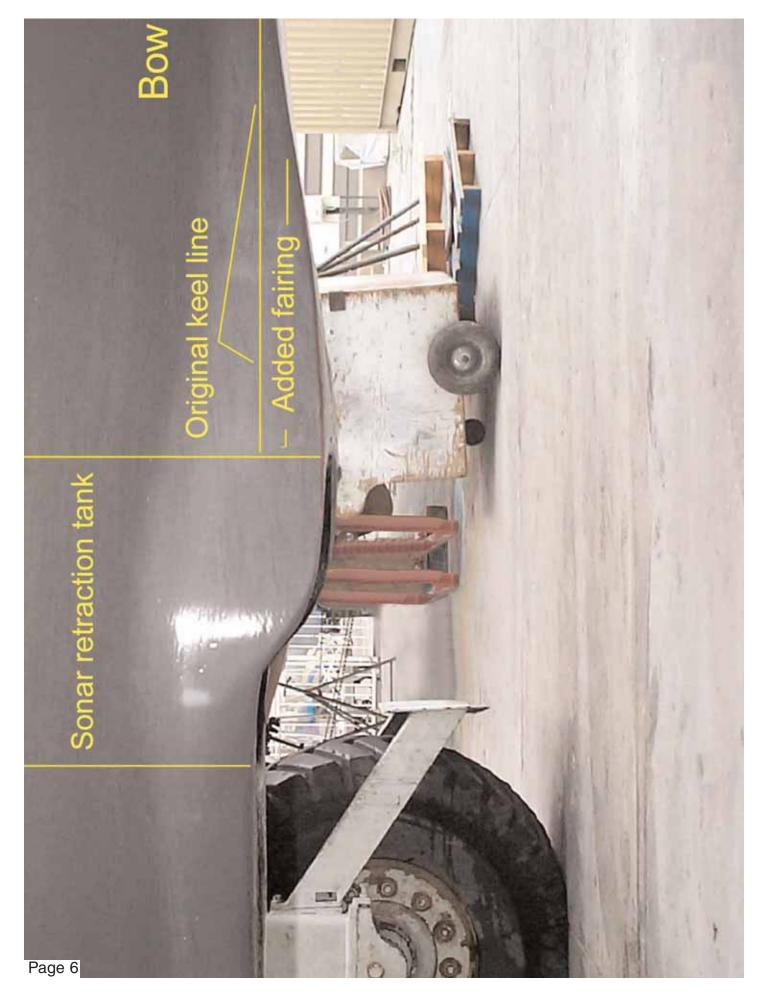
Today, many CH270 bull tubes have to be placed in the forward part of the vessel. This location almost guarantees underway turbulence. Although a poor location, space limitations usually make it the only site available for the hull tube and hoist. As the installation manual shows, the best location is always one third to one half way back from the bow. This is okay, because a bit of prior planning and on - site fabrication will allow a very successful installation on a fast, planing hull vessel. When the vessel's bow rises or she is on a plane, you must prevent the hull tube rear wall from becoming a large water scoop. A simple but effective fairing must be constructed. The fairing routes (diverts) the water flow away from the tube opening, preventing it from striking the tube's rear wall. The same principles applicable for bow thruster installations are true for any sonar bull tube.

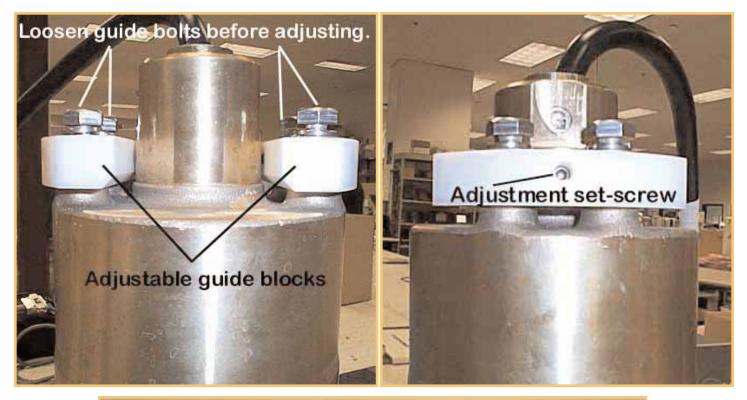
Properly sized and shaped, the fairing will minimize turbulence and destructive soundome or shaft movement. Some vessels may require several fairing size and shape adjustments to be absolutely successful. Pictures of several typical, successful fairings are attached for your information and use. A carefully fitted installation will insure you many years of reliable, trouble free CH270 sonar operation.

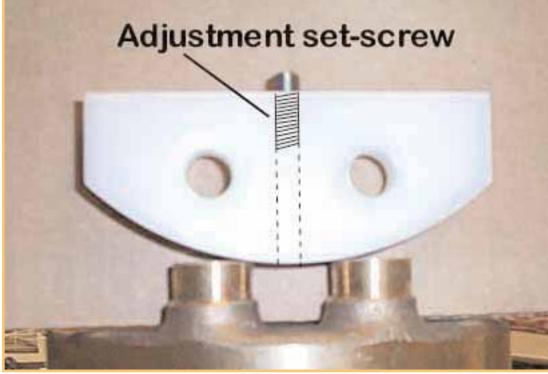


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Please confirm that the narrowest gap between the tank guides and the retraction tube wall is **0.5mm**. Adjust if necessary.

Motion Sensors, Inclinometers and Longer Interconnect Cables

This valuable accessory unit must be mounted correctly to obtain any benefit from it:

- *a)* Select a mounting location that is dry and vibration free
- b) The selected location should be as close to the sonar hoist unit as possible
- c) Mount the unit level (only compensating for normal vessel trim)
- d) Line the unit up "fore and aft" accurately
- e) Mount the unit "right side up" only

If a longer interconnect cable assembly is required, the following options are available:

Part number	Description
MS1-CBL-15M	15 meter signal cable assembly
MS1-CBL-30M	30 meter signal cable assembly
MS1-CBL-50M	50 meter signal cable assembly

Note:

The MS100 compensates for any vessel pitching and rolling at sea. To properly set itself the motion sensor must be powered up while the vessel is in a stable condition. This step is easier to accomplish at the dock. Please get in the babit of powering up the entire CH270 system prior to departing from the dock. This one easy step will ensure proper operation of the MS100 and enhanced CH270 performance for the duration of the voyage.

Soundome Cover Removal and Replacement

To detach or replace the soundome cover assembly, remove the 8 stainless steel cross head cap screws.

Once the soundome has been filled with oil, keep it in a vertical position to prevent any internal seepage. If the soundome assembly has to be removed for repair or shipment, the oil must always be removed. You may wish to retain the soundome packing material for future use.

Checking Soundome When In Dry Dock

When the vessel is dry-docked, check for any signs of corrosion on the Soundome assembly. Find the reason for the corrosion and as necessary attach a zinc plate to the hull unit as an anticorrosion measure. The soundome cover may be cleaned with a household plastic scouring pad, such as "Scotch Brite" pads.

Please feel free to call us at (360) 834-9300 or visit us on the web at www.Furuno.com if you have any additional questions.

Thank you for purchasing the CH270 Searchlight Sonar System!

Furuno U.S.A., Inc.

IMPORTANT

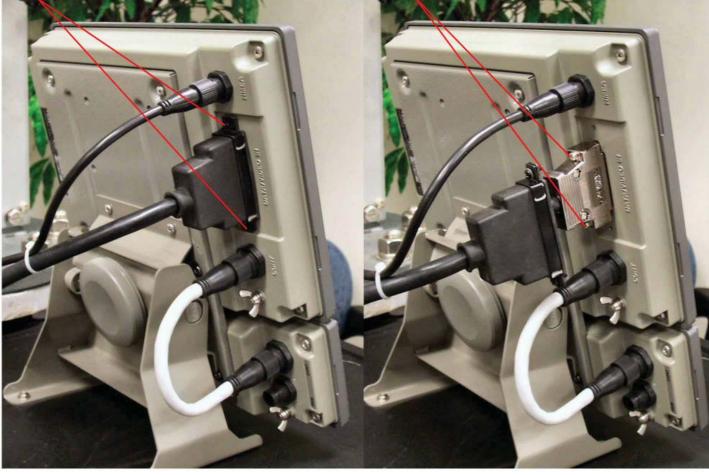
When installing a sonar or FCV-1200 remember to use the screws on the side of the 25-pin connector (not the rubber boot) to keep the connectors tight.

Not these screws

CH-250/270/300 or FCV-1200



These screws



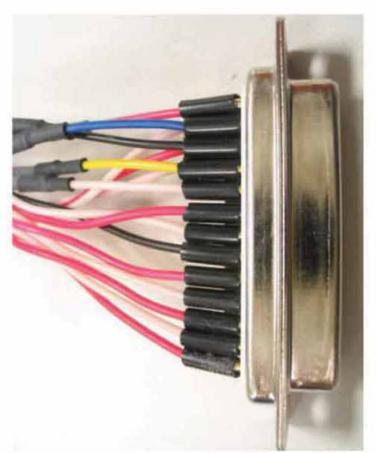
TO: All Dealers RE: CH-270 Erratic targets



We have received a few isolated reports of erratic targets on the CH-270. These problems have been traced to broken wires on the 25-pin J-2 soundome connecter. If a wire comes disconnected the soundome may stick in one position. Please check these connections by lightly pulling on the individual wires and resoldering as required.

If you suspect that you are having a problem you can check the soundome by entering the Diagnostics menu and running a Train/Tilt self test.

Pin 1	Red	TI Motor
Pin 2	Blue	TI Phase 1
Pin 3	Black	TI Phase 2
Pin 4	Yellow	TI Phase 3
Pin 5	White	TI Phase 4
Pin 6	Red	TR Motor
Pin 7	White	TR Phase 1
Pin 8		TR Phase 2
Pin 9	Red	TR Phase 3
Pin 10	White	TR Phase 4
Pin 11	a second s	TI 93 Degree
Pin 12	White	TI +8 Degree
Pin 13		TR AFT
Pin 14		TR Fore
Pin 15		8V
Pin 16		0V



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