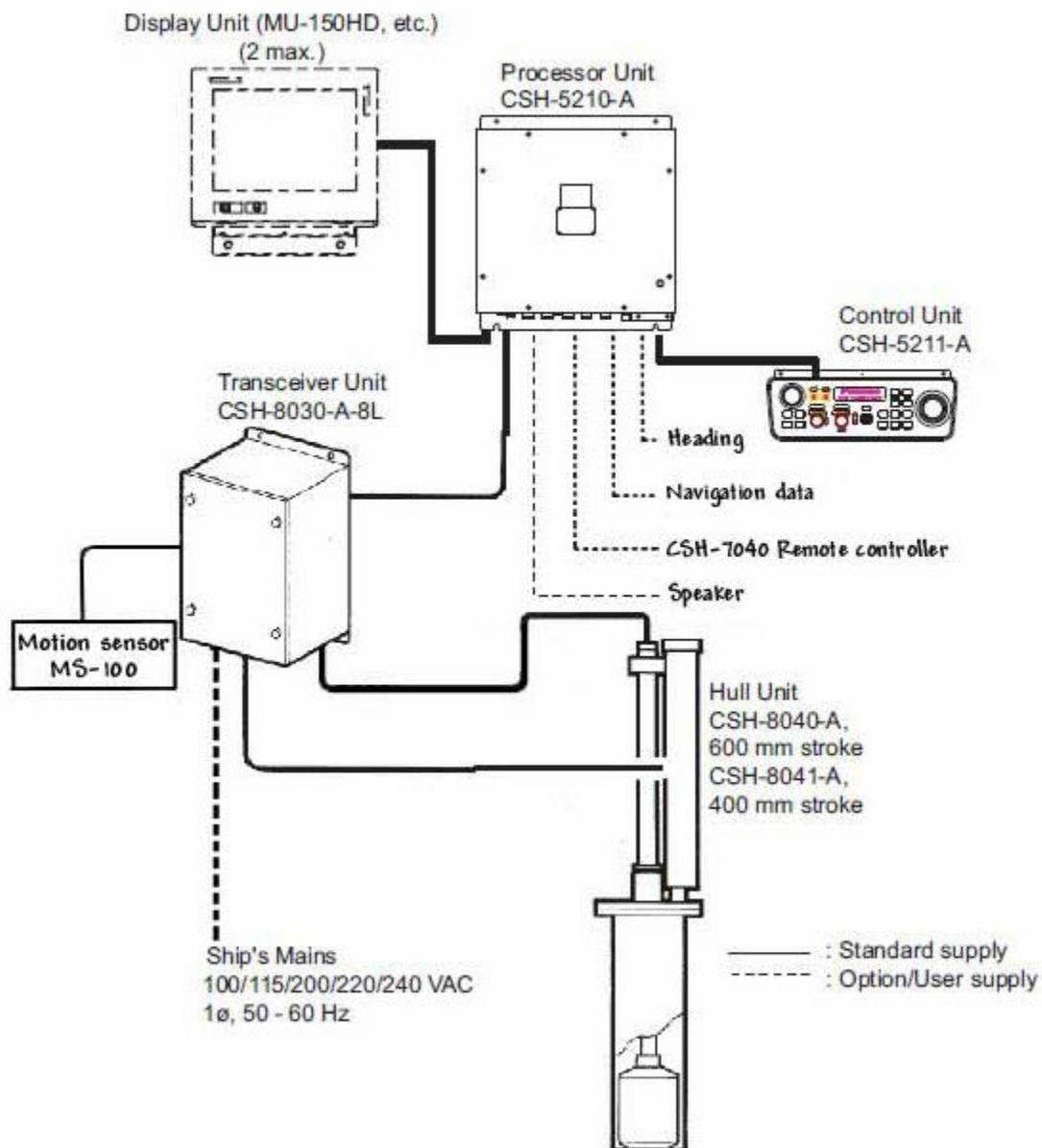


# CSH-8LMK2 sonar tips

## Basic system configuration

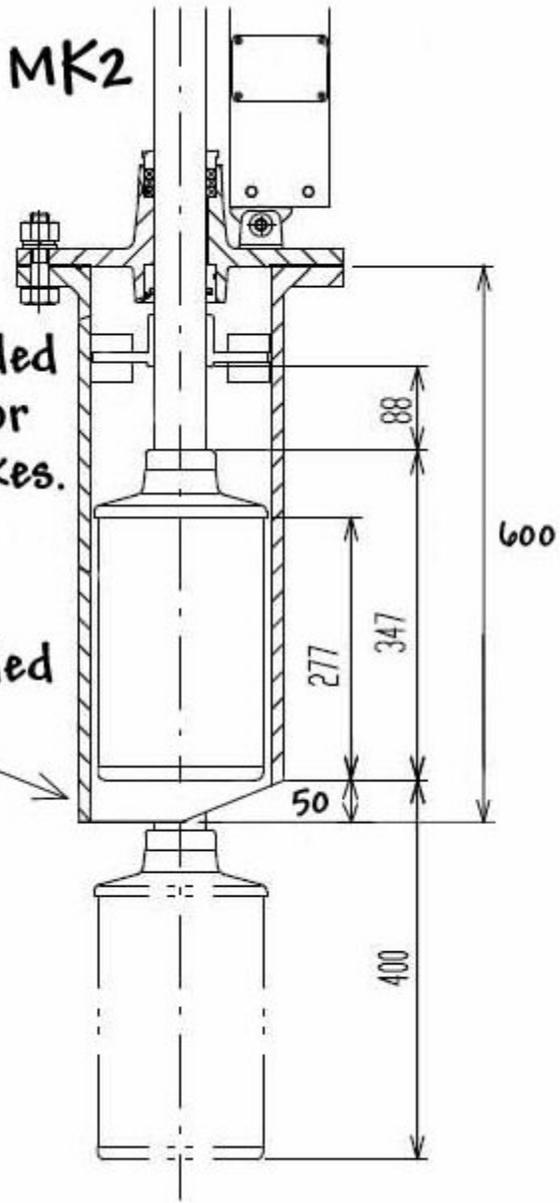


# Minimum tube lengths

Furuno CSH-5L/8L MK2

600mm is the recommended minimum tube length for sonars with 400mm strokes.

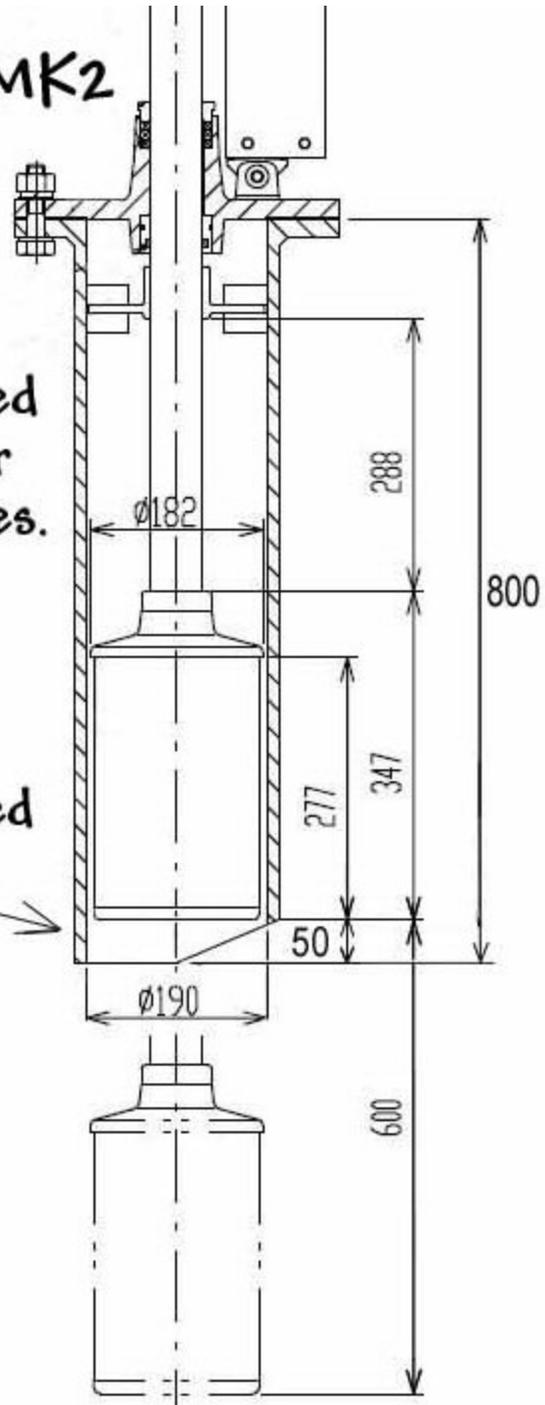
50mm is the recommended fairing size.



# Furuno CSH-5L/8L MK2

800mm is the recommended minimum tube length for sonars with 600mm strokes.

50mm is the recommended fairing size.



Fairings, leading and trailing examples  
Leading edge



# Trailing edge

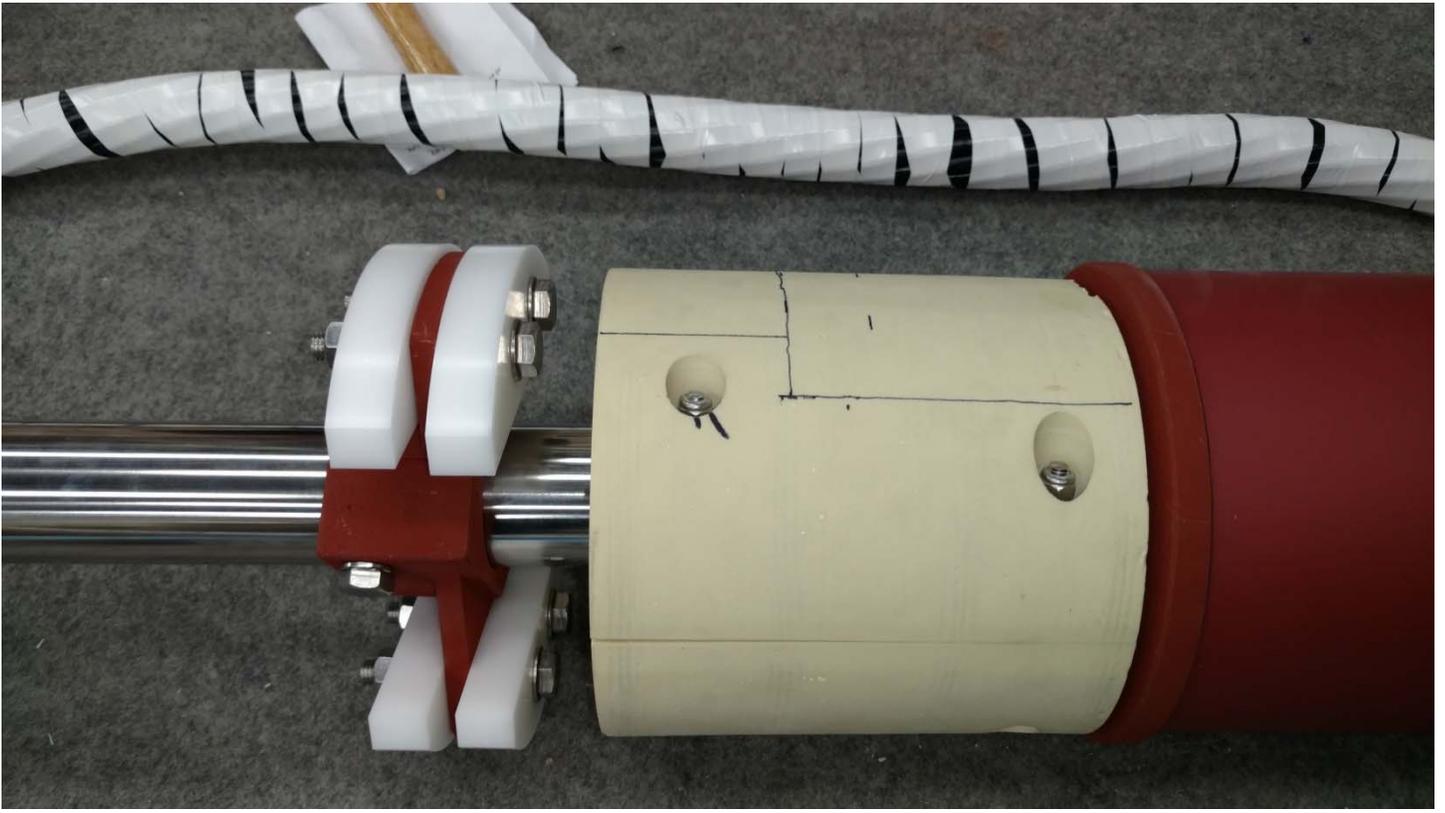


# Shaft collars

Shaft collars are not required but are recommended. The addition of a collar can help prevent kelp, lines and ropes from getting wrapped around the sonar shaft and pulled up inside the tube when the sound dome is being retracted.



*Vikings latest shaft collar design.*



*Photo showing a 400mm stroke with no shaft collar installed.*

# Hoist Unit Checks

One item to be cautious of is the length and how the transducer cable is routed exiting the top of the sonar shaft. If the cable is too long it can rub or get pinched when the hoist is lowered/raised. Below are a couple of examples of the cable being too long.



## Recommend length

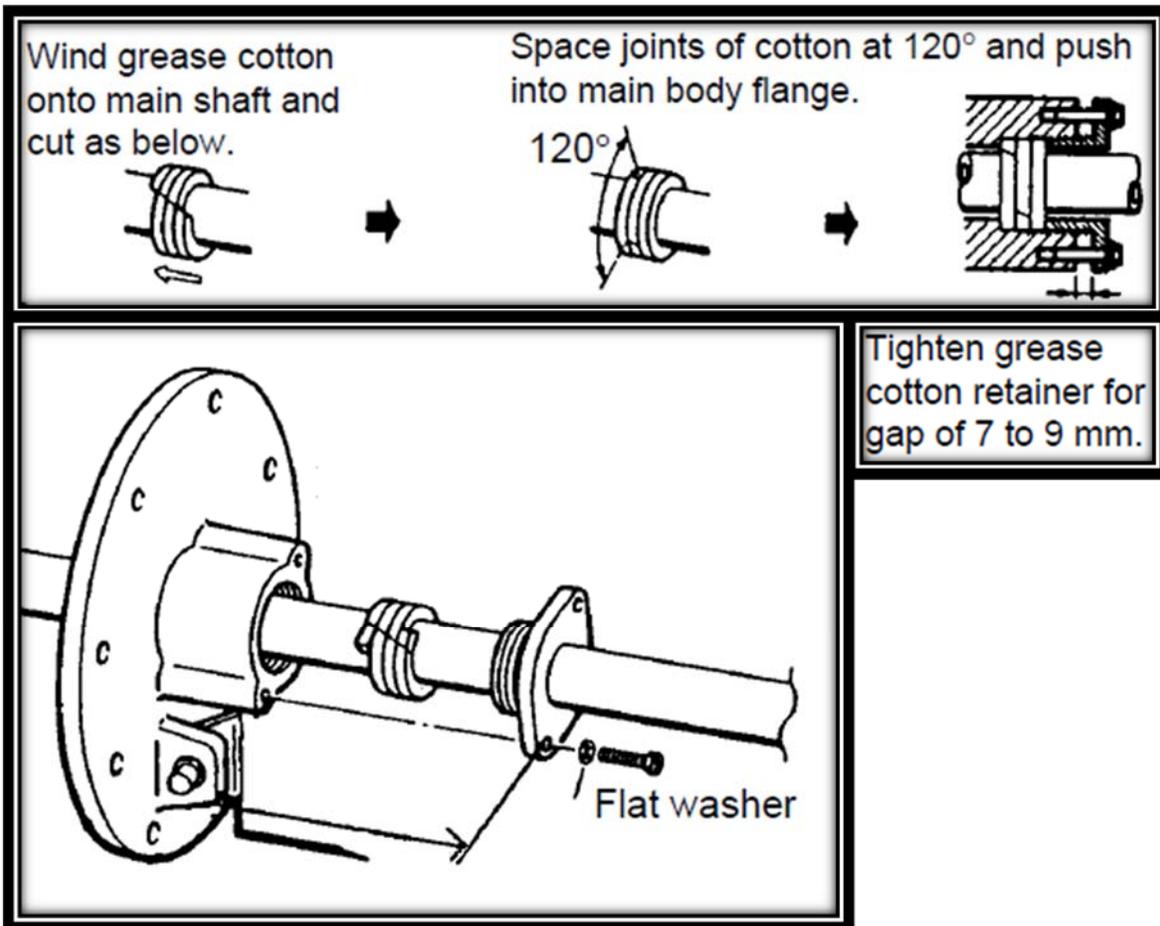


## Transceiver mounting

The sound dome comes with 6.6m of cable. After you add the shaft and route the transducer cable through the attachment point you may only have 5m of cable to work with. It is highly recommended that the T/R unit be mounted vertical and in a cool well ventilated area if at all possible. If needed, a 6.6m transducer extension cable CSH-1700 is available.

# Grease Cotton Packing/Retainer Ring

It is good practice to periodically inspect the grease cotton retainer ring. The grease cotton retainer ring should be set with approximately 7-9mm of room between the hull unit flange and the retainer ring. If there is no room between the hull unit flange and the retainer ring that could indicate that the recommended 3 layers of packing might not be installed or the grease cotton retainer ring could be over tightened. The role of the greased cotton is to keep the sonar shaft slightly lubricated for the lower V-ring seal.





*Correct setting*



*Incorrect Setting*

## *Raise/Lower Drive System*

*When the the grease cotton retainer ring is over tightened it can cause excess strain on sonar raise/lower drive motor. A simple check of the raise/lower time on the hoist unit can verify the drive system is operating within specification.*

|                     |                     |
|---------------------|---------------------|
| <i>400mm Stroke</i> | <i>600mm Stroke</i> |
| <i>14 seconds</i>   | <i>20 seconds</i>   |

*If the raise/lower time is longer than the recommended values above, a closer inspection of the grease cotton packing and retainer ring will be your next step. The grease cotton packing should not be frayed or show excess wear. If the packing has signs of wear/fatigue it can be replaced.*

*Furuno Part Number: 000-177-698-10.*

# Auto Retraction Setup

The auto retraction setup should be done at the commissioning stages. The sonar can use GPS data to trigger this important safety feature. We all know in the heat of battle certain things can be pushed aside and forgotten about. When this feature is setup the the sonar hoist unit will auto retract when the speed threshold is reached.

Verify with the installer a GPS has been interfaced with the sonar processor. You should see an indication on the main display located at the top right of the screen.

To setup, press the [MENU] key, use the [RANGE] control to choose the [MENU MODE], use the [GAIN] control to select SYSTEM.

| ** SYSTEM MENU **   |               | (RANGE CTRL: U/D, GAIN CTRL: L/R) |                     |
|---------------------|---------------|-----------------------------------|---------------------|
| [MENU MODE]         | : SONAR       | SOUNDER                           | MARKS <b>SYSTEM</b> |
| DIMMER              | : 10          |                                   |                     |
| DISP SELECT         | : <b>TEMP</b> | CURRENT                           |                     |
| HEADING ADJ         | : 0°          |                                   |                     |
| <b>AUTO RETRACT</b> | : <b>OFF</b>  | <b>(OFF, 5-16kt)</b>              |                     |
| SPEED MESSAGE       | : <b>ON</b>   | OFF                               |                     |
| EXT KP SYNC         | : <b>OFF</b>  | ON                                |                     |

Use the [Range] control to select AUTO RETRACT.

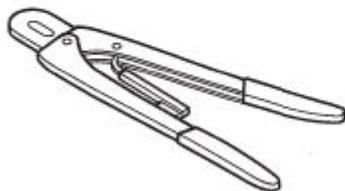
Use the [Range] control to move the cursor to the AUTO RETRACT setting.

Use the [Gain] control to set the speed threshold for the AUTO RETRACT feature. Recommended retraction speed is 10 or 11 knots.

## Needed tools.

### Connecting contact pins

A special crimping tool is necessary for connection of wires to the contact pins of the 38P connector. In addition, a pin extractor should be used to remove the contact pin from the connector housing.

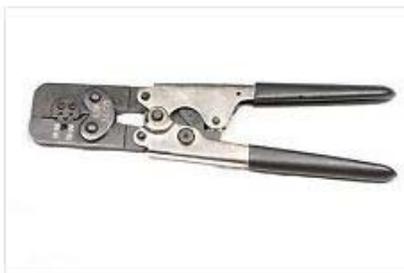


Crimping tool



Pin extractor

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