



# **EMC Electric Throttle/Cable Shift Installation and Operation Manual**

**Livorsi Part #**

**EMCPCF100**

**EMCPCF101**

**EMCPCF102**

**Revised June 2017**

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# INTRODUCTION

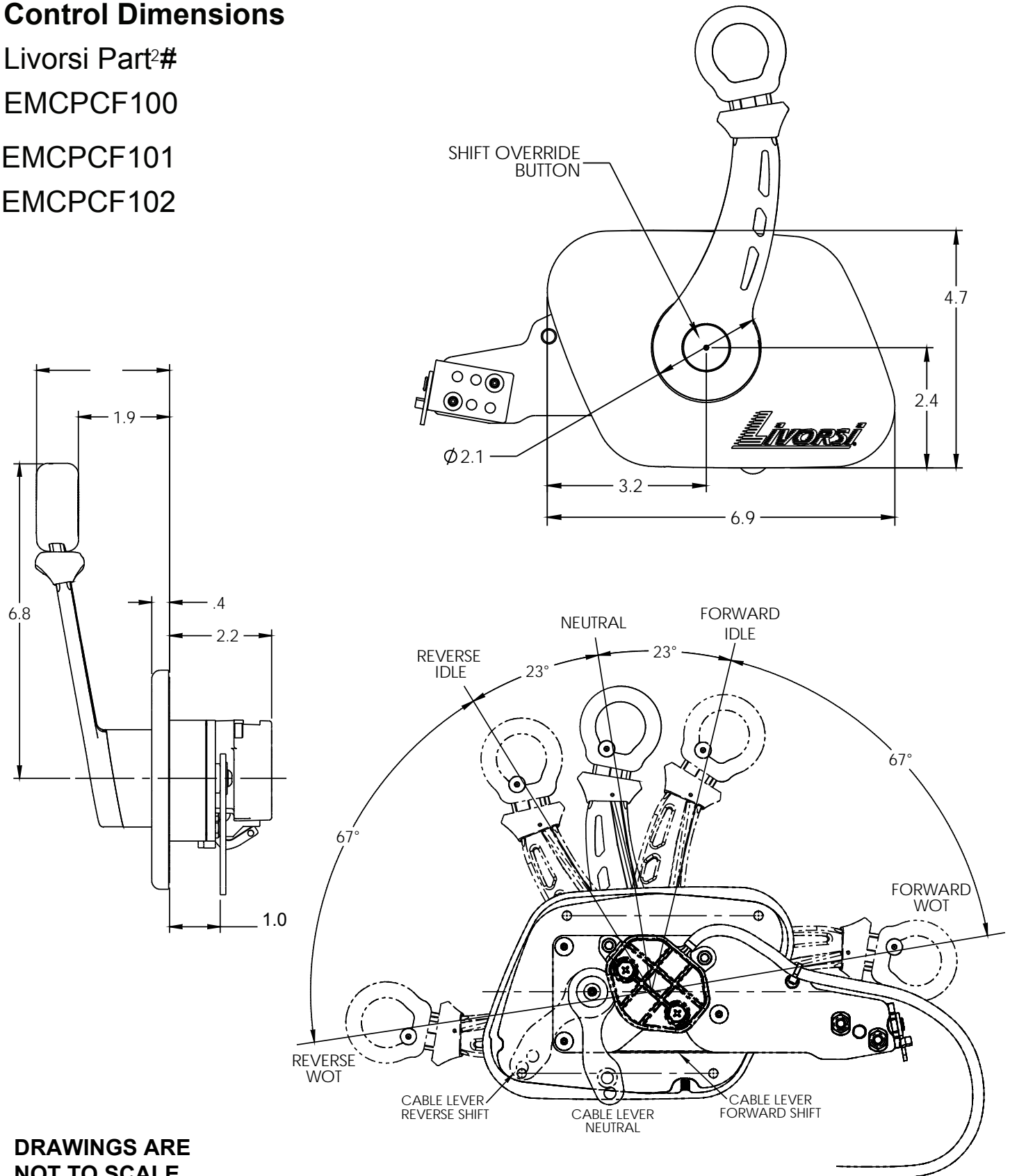
## Control Dimensions

Livorsi Part<sup>2</sup>#

EMCPCF100

EMCPCF101

EMCPCF102



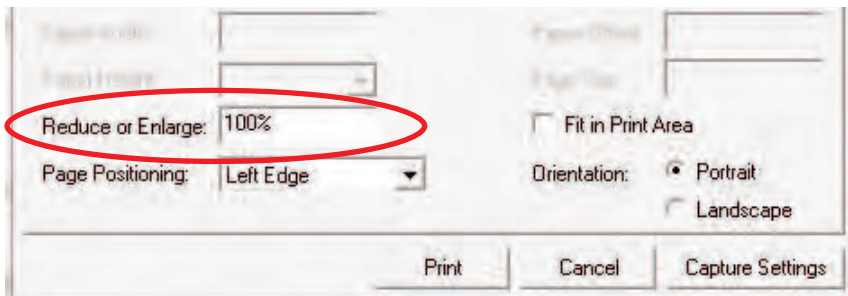
**DRAWINGS ARE  
NOT TO SCALE.**

# INSTALLATION

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## Using Mounting Templates / Cut Out Patterns

Utilize the template provided for appropriate control cut out pattern.  
Template on page 7. Print template at 100% scale.

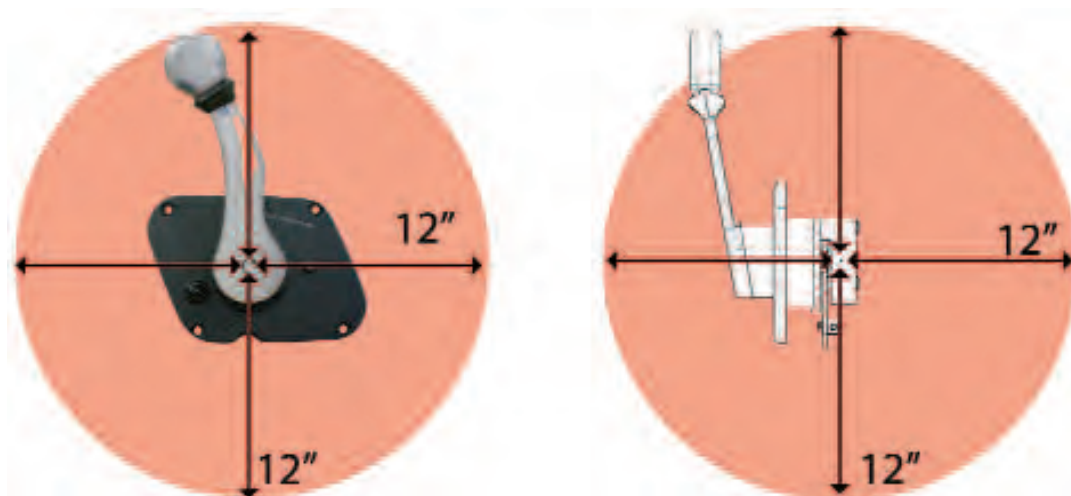


Repower / Replacement: Please note that installation of the Livorsi control may require modification of the existing control cut out pattern in your application. In some instances, an additional plate may need to be made to cover the old cutout to allow proper mounting of the new Livorsi control. Livorsi is not responsible for these modifications.

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## Install Requirements

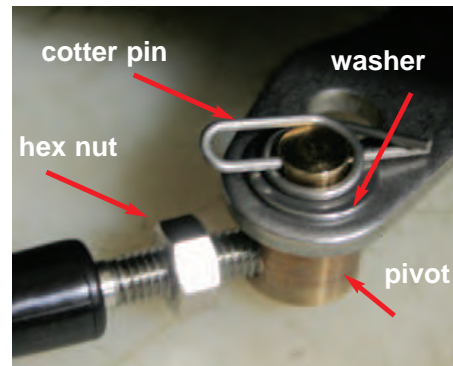
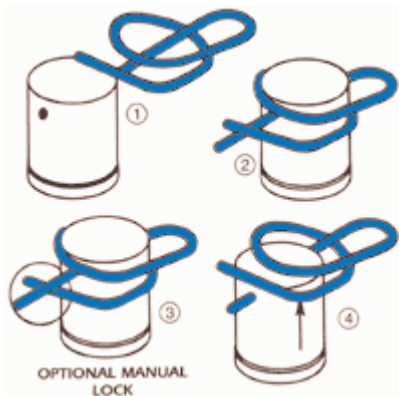
Magnetic interference: No speakers or magnetic sources within 12 inches of control.



## Parts included

Contents of small parts bag for base of control:

- Cable Pivot
- Hex Nut
- Cotter Pin
- Set Screw for Bezel Plate
- Washer Flat



## Installing the Control

### **Cable Clamp:**

The cable clamp comes attached to the control base plate.

Slide the cable through the “U” shaped opening, and secure the cable in place by moving the latch to lock it in place.



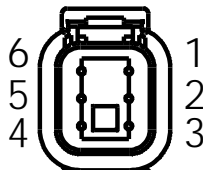
### **Throttle Connector:**

Make connections to the engine harnesses. When properly connected, you will hear a “click”, indicating a good connection.

Double check connection, by gently tugging at the connectors.



THROTTLE  
CONNECTOR  
DEUTSCH DTM SERIES  
FEMALE RECEPTACLE  
PART# DTM04-6P  
COLOR: GREY

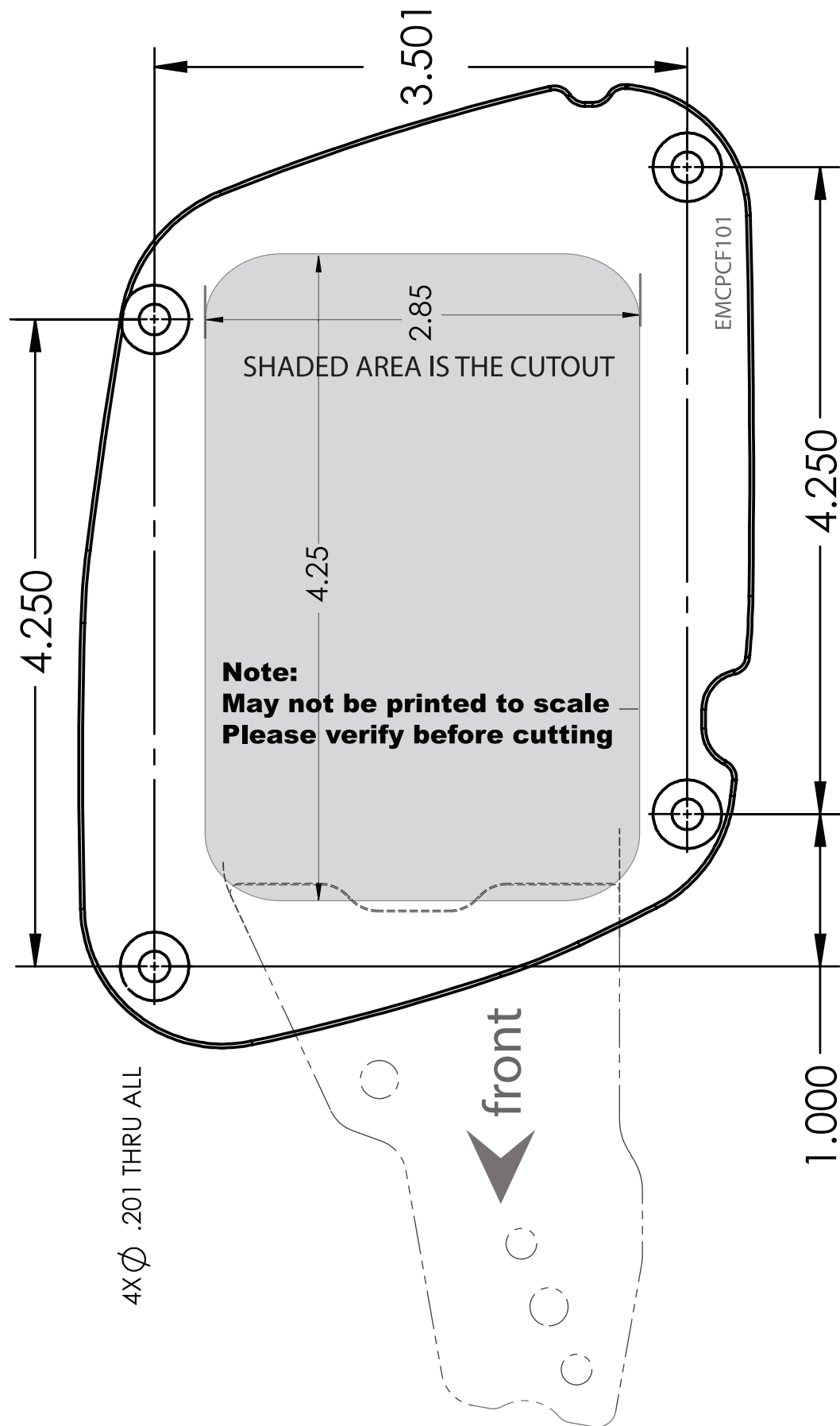


CONNECTOR PIN-OUTS		
PIN 1	PPS1	+5v Ref
PIN 2	PPS2	+5v Ref
PIN 3	PPS1	Signal
PIN 4	PPS1	GND
PIN 5	PPS2	GND
PIN 6	PPS2	Signal

**INTENTIONALLY LEFT BLANK**

# MOUNTING TEMPLATE

Livorsi Part #  
EMCPCF100  
EMCPCF101  
EMCPCF102



**INTENTIONALLY LEFT BLANK**



# MAINTENANCE

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## Corrosion Protection:

For maximum protection, especially in a saltwater environment, the control head and hand lever should be washed lightly with fresh water on a regular basis.

- Periodically check the control head mechanism for loose fasteners and signs of wear on moving parts.
- Keep moving parts well lubricated with a moisture-displacing lubricant.
- Periodically check the cables and engine connections for signs of wear and corrosion. Replace as necessary.

## WARRANTY

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All Livorsi Marine® products carry a limited one year warranty for repair or replacement at Livorsi's discretion. All Livorsi Marine® products are warranted to be free of defects in material and workmanship. Users/Customers of Livorsi Marine®/Livorsi® products agree not to hold Livorsi Marine, Inc., its owner or employees responsible for any damages occurring by improper installation or use of Livorsi Marine® or Livorsi® products. The company, owner or its employees will not be liable for more than the cost of the original product and in no event will Livorsi Marine® or Livorsi® be liable for special, indirect or consequential damages of any kind whatsoever.



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