



MEC Mechanical Throttle/Electronic Shift Installation and Operation Manual

Livorsi Part #

MECANBF5065

MECANBF5069

Revised June 2017

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TABLE OF CONTENTS

Introduction3

 Control Dimensions3

Installation4-6

 Using Mounting Templates / Cut Out Patterns4

 Installing Requirements.....4

 Detent and Friction Adjustability5

 Making Cable Connections5

 Harness Connections.....6

Mounting Templates7

Maintenance8

 Corrosion Protection.....8

Warranty8

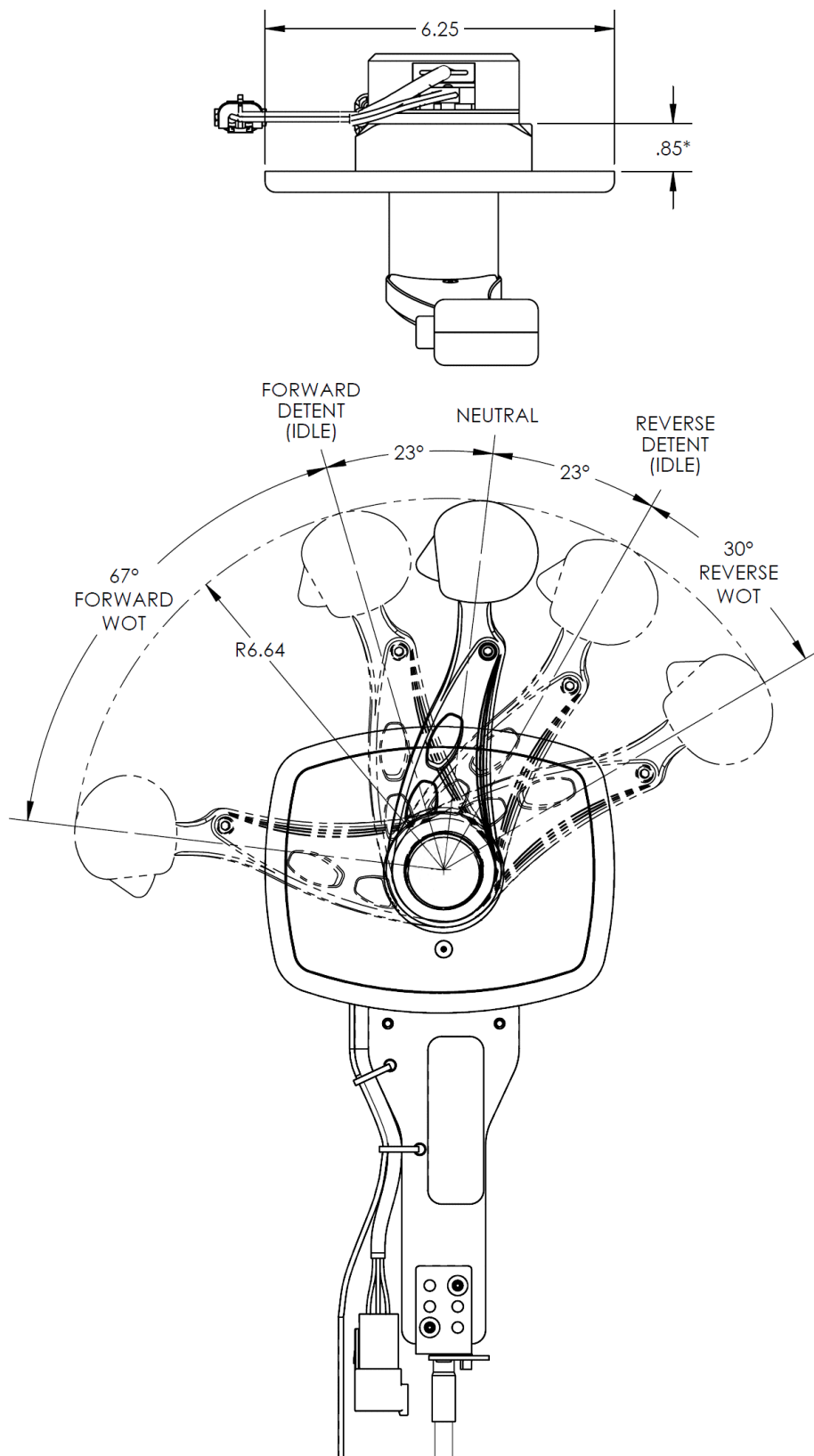
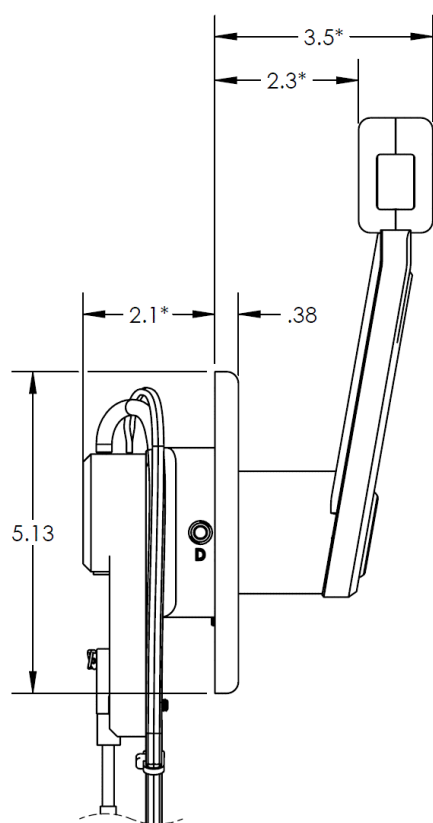
INTRODUCTION

Control Dimensions

Part #

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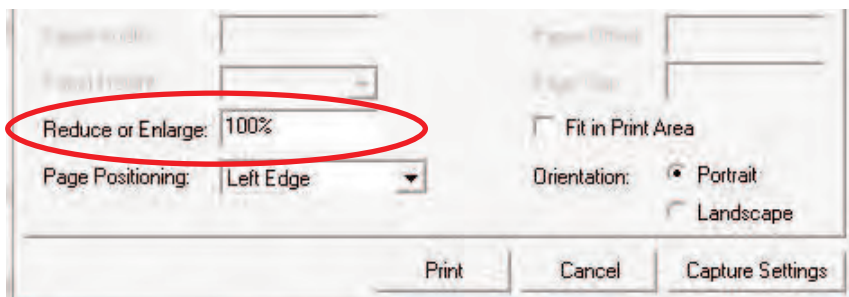
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INSTALLATION

Using Mounting Templates / Cut Out Patterns

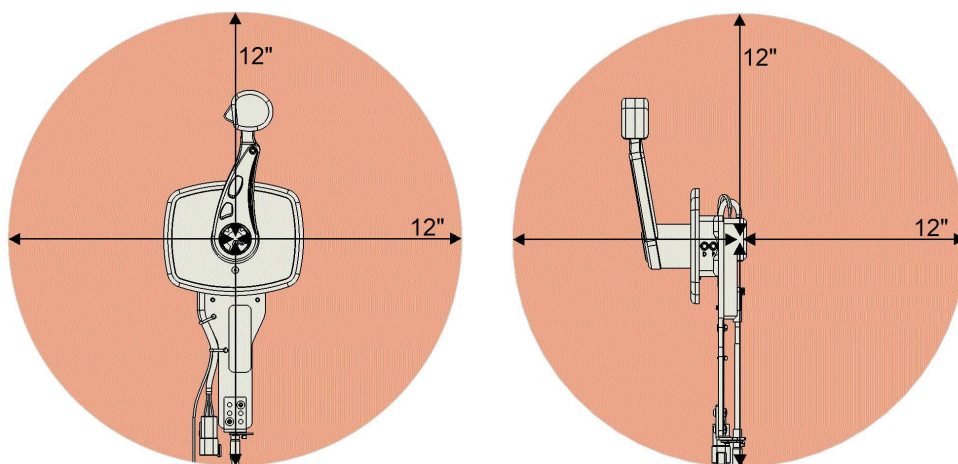
Utilize the template provided for appropriate control cut out pattern.
Print template at 100% scale.



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.

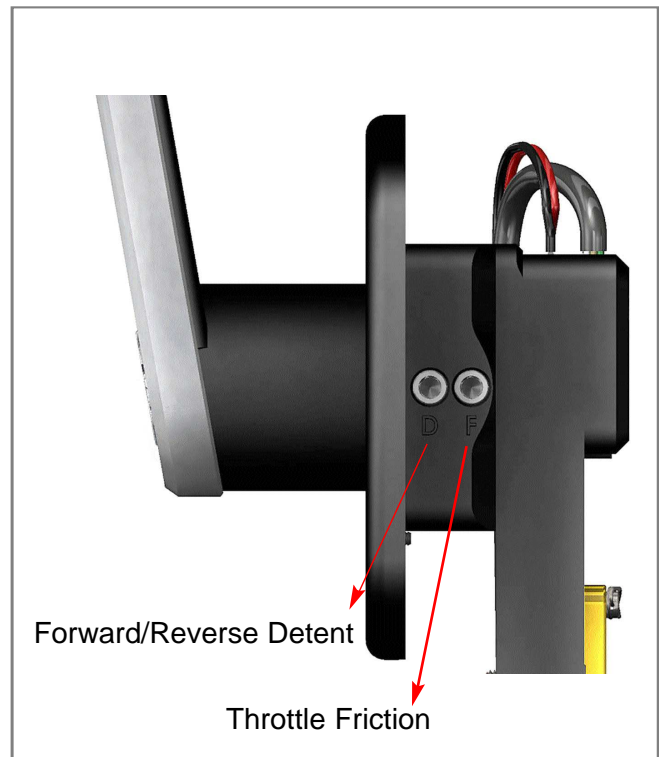
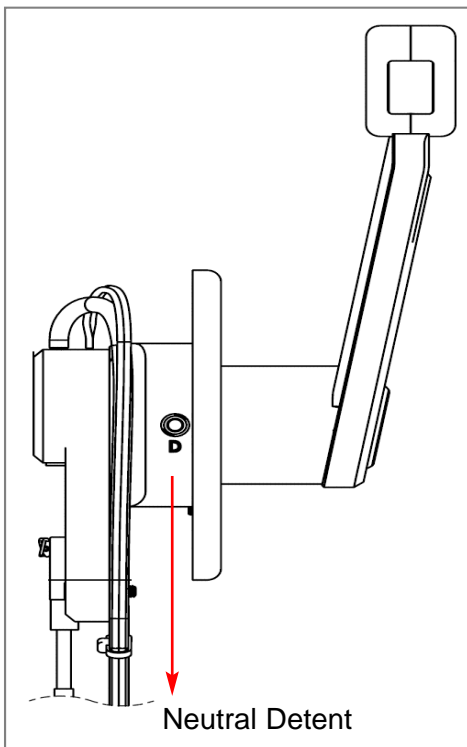
Install Requirements

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

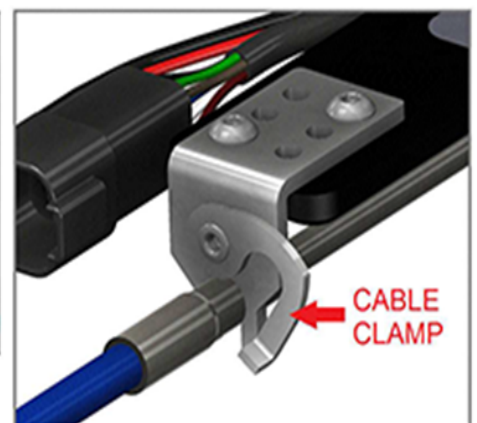
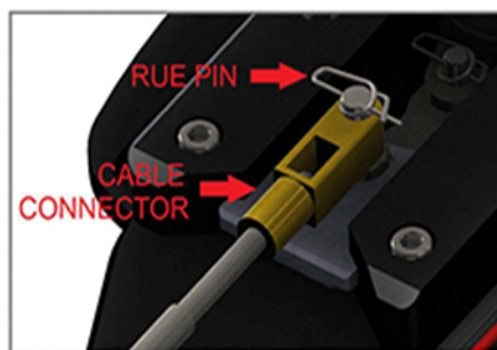
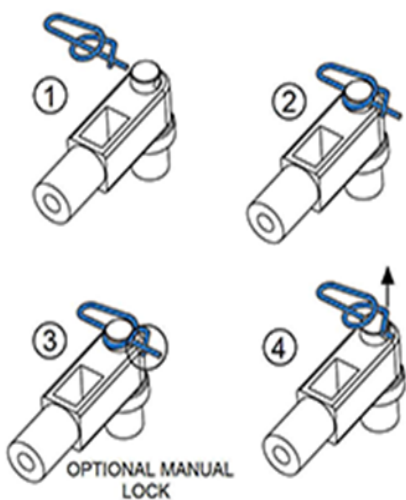


Detent and Friction Adjustability:

It's not recommended to make changes to the factory settings, although if adjustments are made, place the lever in wide open throttle prior to any adjustments. Adjust in 1/4 turn increments.



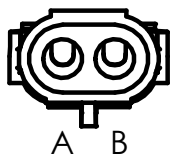
Making Cable Connections:



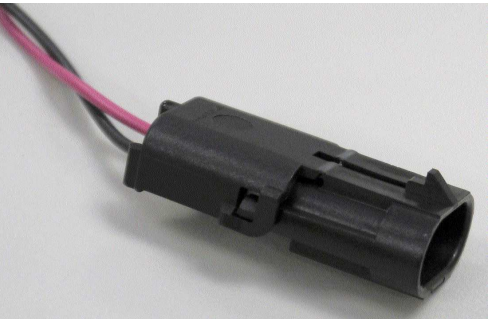
Harness Connections:

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.

NEUTRAL SAFETY SWITCH
CONNECTOR
HOUSING: PACKARD #12010973
TERMINALS: PACKARD #12089040
SEAL: PACKARD #12015323

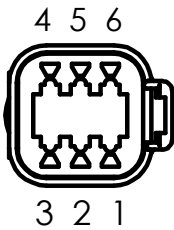


NSS CONNECTOR PINOUTS	
PIN A	NORMALLY OPEN (RED)
PIN B	COMMON (BLACK)



6 pin Deutsch shift connector

eReverse CONNECTOR
DEUTSCH DT SERIES
FEMALE RECEPTACLE
PART # DT04-6P
COLOR: GREY



eReverse CONNECTOR PINOUTS		
PIN 1	PSB GND	GREEN
PIN 2	PSB SIGNAL	TAN
PIN 3	PSB +5	WHITE
PIN 4	PSA +5	RED
PIN 5	PSA GND	BLACK
PIN 6	PSA SIGNAL	BLUE



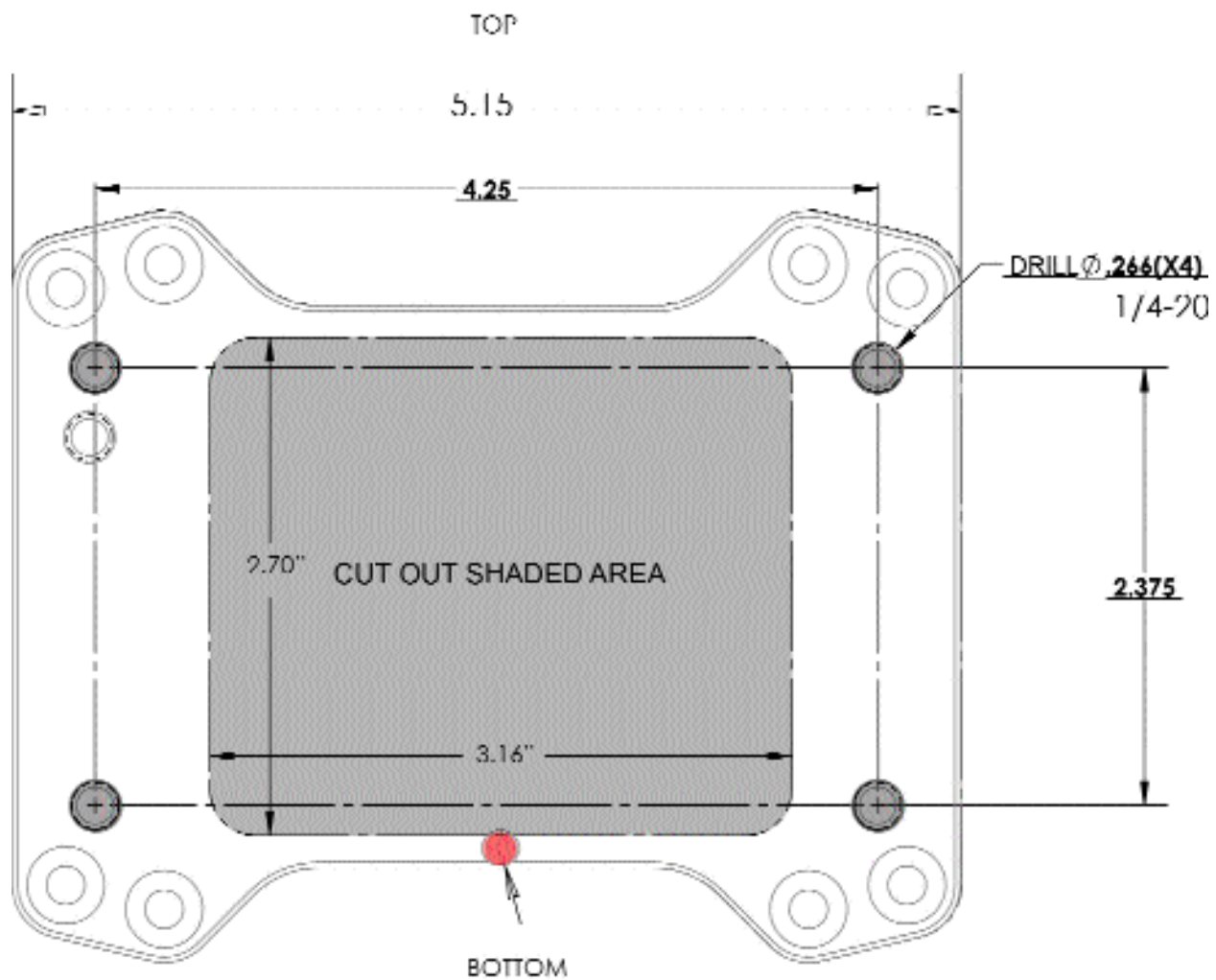
Neutral safety switch connection.
Normally closed in neutral

MOUNTING TEMPLATE

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MAINTENANCE

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

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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