

# 2048 | PUSH-PULL CONTROL



## Putting you in control.

Manufactured for the marine environment, the Kobelt 2048 push-pull control is the rugged solution for your vessel. The control head features twin-engine control with both the clutch and throttle control integrated into each lever. The Kobelt 2048 also features a spring-loaded throttle override which permits running the engine with the clutch disengaged. With a wide array of options to choose from, Kobelt has the product to meet your propulsion control needs.



## Specifications

### Handle Travel:

• Neutral:	0°	Detented
• Clutch engage:	+/- 30°	Detented
• Full throttle:	+/- 85°	-
• Over-travel: <sup>2</sup>	92°	Detented

### Pin Position Stroke:

	1	2	3	4
• Clutch:	±0.66 in [±17 mm]	±0.93 in [±24 mm]	±1.20 in [±30 mm]	±1.48 in [±38 mm]
• Throttle:	0.86 in [22 mm]	1.21 in [31 mm]	1.55 in [39 mm]	1.90 in [48 mm]

### Maximum Output Force<sup>3</sup>:

• Clutch:	147 lbf [654 N]	106 lbf [472 N]	83 lbf [369 N]	68 lbf [302 N]
• Throttle:	121 lbf [539 N]	90 lbf [399 N]	71 lbf [315 N]	59 lbf [261 N]

### Lever Ratio:

• Clutch:	5.1:1	3.7:1	2.9:1	2.4:1
• Throttle <sup>4</sup> :	4.2:1	3.1:1	2.4:1	2.0:1

Ambient Temperature: -40°F...+140°F [-40 °C... + 60 °C]

Weight: 14.4 lbs [6.5 kg]

## Key Features

- Twin-engine propulsion control<sup>1</sup>
- Throttle override capability
- Selectable strokes (4 positions)
- Suitable for 30 & 40 series cable
- Configurable design to suit requirements
- Bronze & stainless steel construction

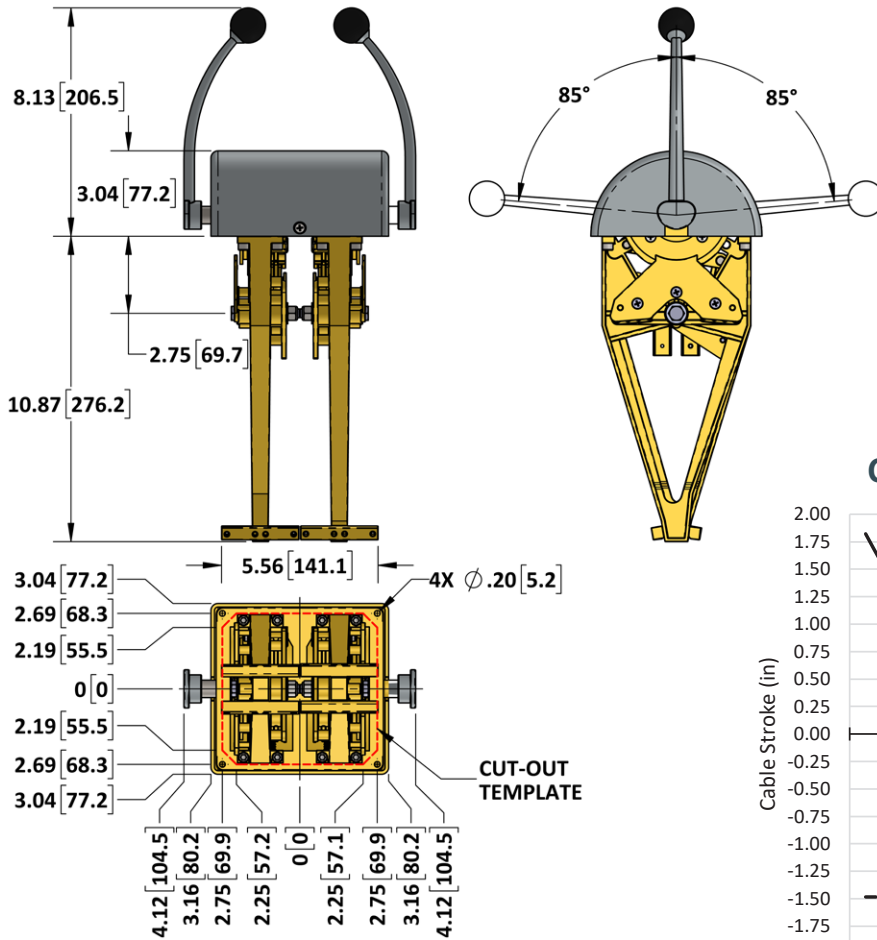
<sup>1</sup> Single station control only – transfer unit must be used for two stations.

<sup>2</sup> Forward direction only.

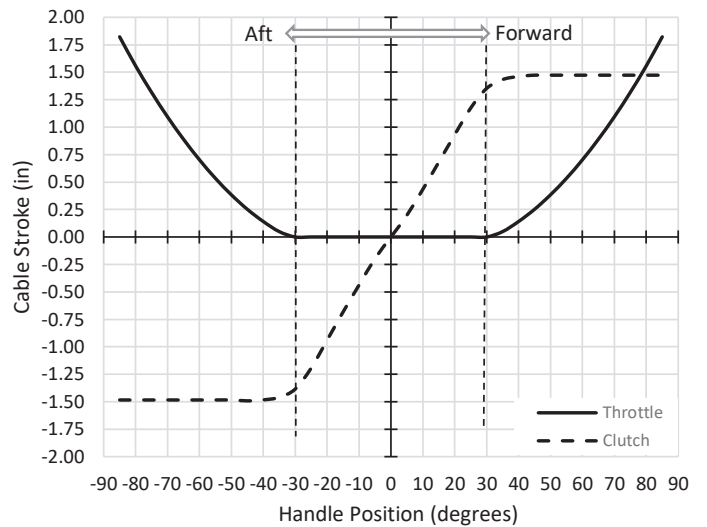
<sup>3</sup> Estimated output force is at end of stroke based on an input force of 29lbf on a "Tee" handle. Output force must not exceed rated cable force.

<sup>4</sup> At end of stroke, lever ratio increases towards neutral.

# SPECIFICATIONS



## Clutch & Throttle Engagement



### Model Code Key

2048- ← (list in alphabetical order)

#### Safety Options

- J = Two neutral safety switches
- Blank = No safety option

#### Finish Options

- K = chrome plated
- L = polished brass
- M = black painted dome & chrome plated handles
- Z = metal position labels

#### Handle Options

- U = Two curved handles with knobs
- V = Two tee handles with plastic grips
- Y = Two tee handles

### Popular Configurations:

2048-KYZ

### Accessories

- 2046-0901 Connector kit, 30 series cable
- 2046-0902 Connector kit, 40 series cable
- 2048-0903 Switch kit, neutral safety
- 2046-0015 label; FWD – NEUTRAL – REV
- 2046-0905 Throttle extension kit; 30 series cable
- 2046-0906 Throttle extension kit; 40 series cable

Note: Cable kits must be ordered separately