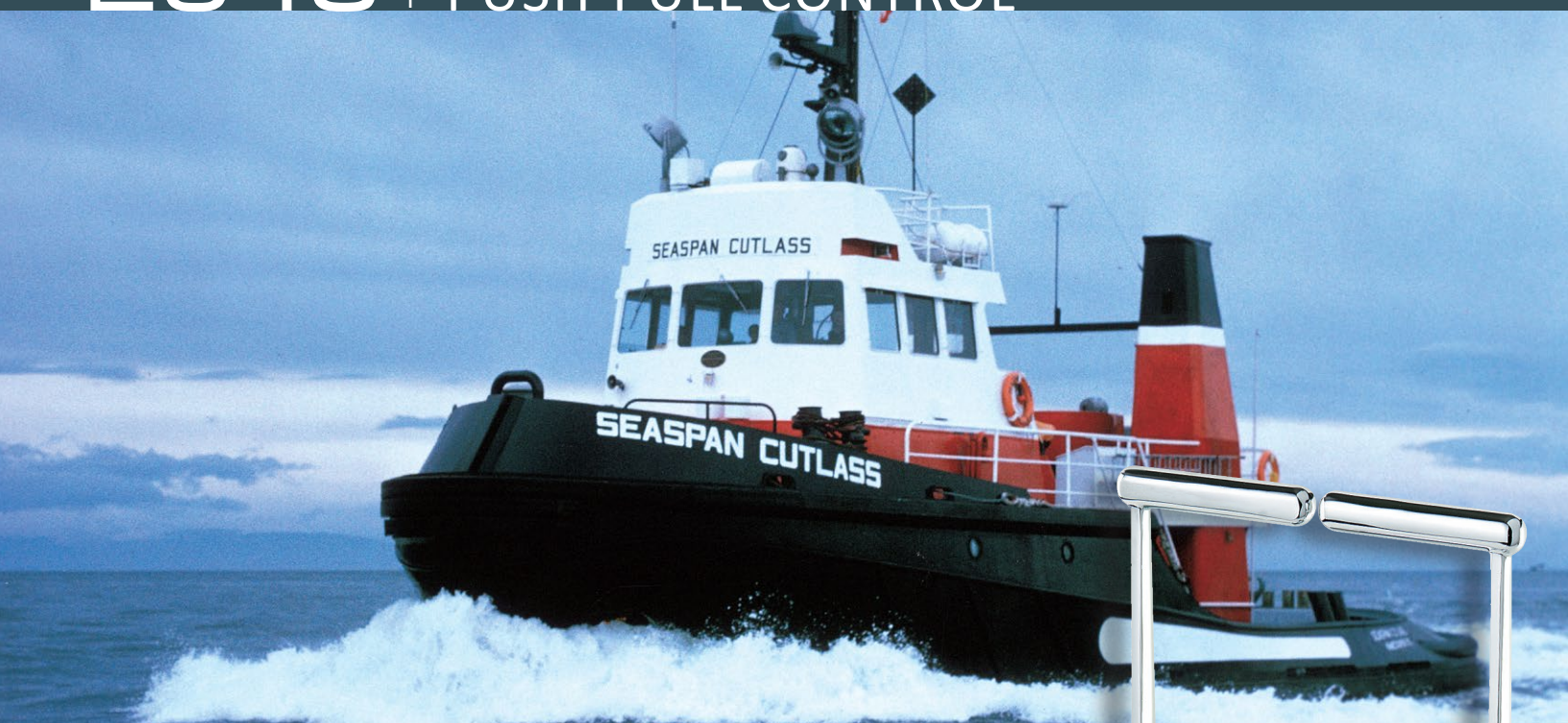


2048 | PUSH-PULL CONTROL



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: ²	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 Force³:

• 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	3.7	2.9	2.4
• Throttle ⁴ :	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 control¹
- Throttle override capability
- Selectable strokes (4 positions)
- Suitable for 30 & 40 series cable
- Configurable design to suit requirements
- Bronze & stainless steel construction

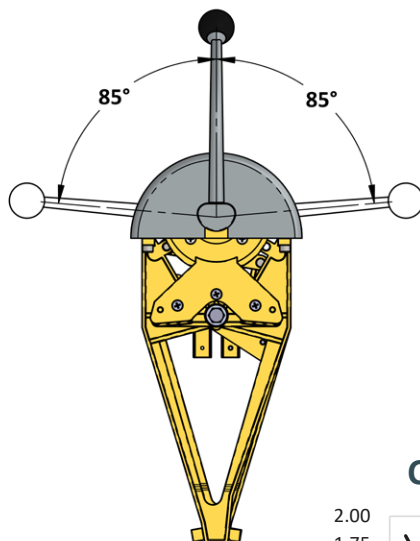
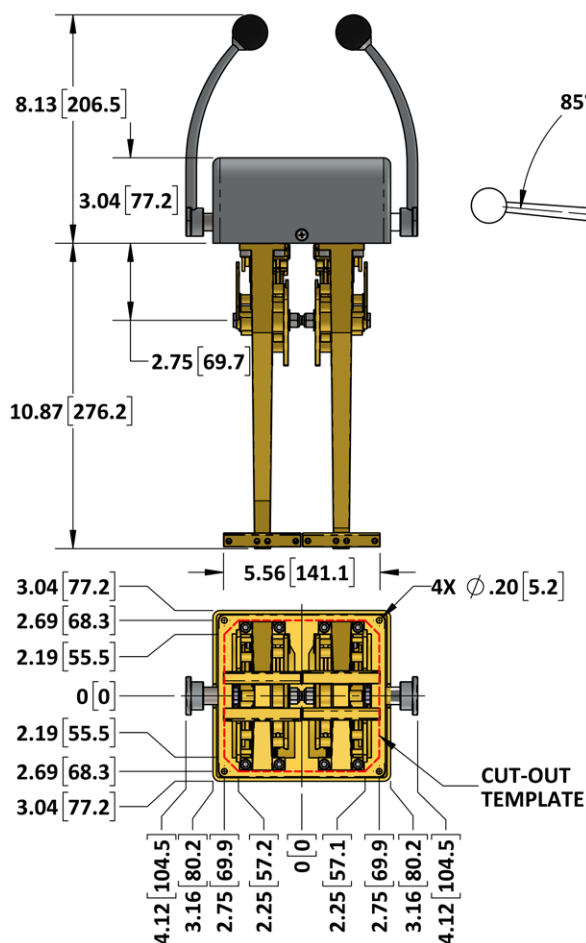
¹ Single station control only – transfer unit must be used for two stations.

² Forward direction only.

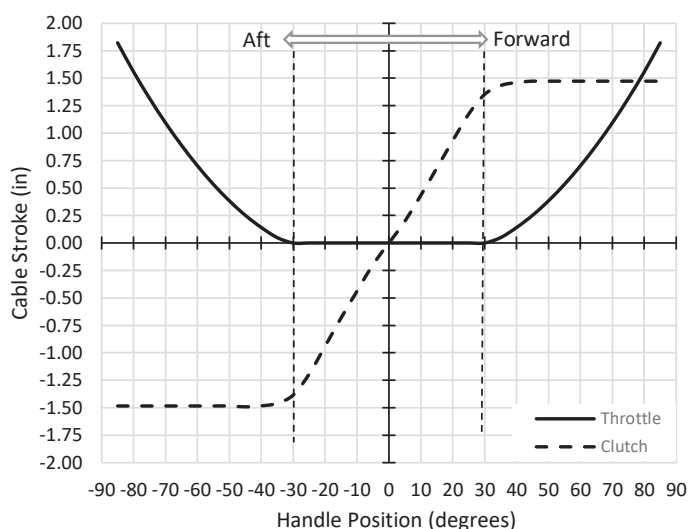
³ Estimated output force is at end of stroke based on an input force of 29lbf on a "Tee" handle. Output force must not exceed rated cable force.

⁴ 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

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

¹ Specify desired finish with appropriate letter code for cosmetic parts.

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