

Outhaul Systems

The outhaul controls and shapes the mainsail. Ease the outhaul to increase draft and power up the sail. Tighten the outhaul to flatten the sail and reduce drag and heel in heavy air.

Typical boat length:

Small Boat: 22' - 28' (6.7 - 8.5 m)

Midrange: 29' - 34' (8.8 - 10.4 m)

Big Boat: 35' - 42' (10.7 - 12.8 m)

2:1 Internal

Suitable for dinghies or small keelboats. A flexible cable shackles to the sail and enters the boom through a wire block. Placing a block aft of the cleat allows the crew to pull from a variety of positions.

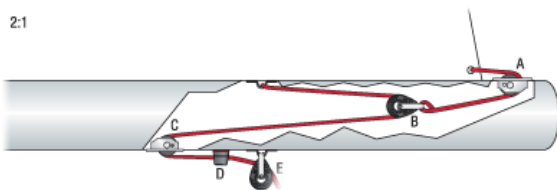


Diagram Ref.	Description	Small Boat Part No.	Midrange Part No.	Big Boat Part No.
A	Through-deck	<u>106</u>	<u>302</u>	<u>306</u>
B	Single	<u>348</u>	<u>2650</u>	<u>2152</u>
C	Through-deck	<u>1200</u>	<u>1202</u>	<u>1203</u>
D	Cam cleat	<u>468</u>	<u>150</u>	<u>150</u>
E	Single	<u>349</u>	<u>2149</u>	<u>2149</u>

4:1 External Cascade

A simple external outhaul system. A cascade of two 2:1 tackles produces a 4:1 advantage.



Diagram Ref.	Description	Small Boat Part No.	Midrange Part No.	Big Boat Part No.
A	Eyestraps	<u>281</u>	<u>137</u>	<u>1558</u>
B	Cheek	<u>350</u>	<u>2644</u>	<u>2606</u>
C	Single	<u>2146</u>	<u>2148</u>	<u>2152</u>
D	Cam cleat	<u>468</u>	<u>150</u>	<u>150</u>

5:1 Internal

This 5:1 internal outhaul is popular on small offshore boats.

5:1

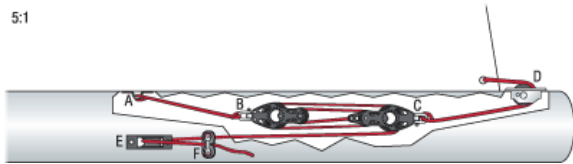


Diagram Ref.	Description	Small Boat Part No.	Midrange Part No.	Big Boat Part No.
A	Eyestraps	<u>201</u>	<u>137</u>	<u>1558</u>
B	Fiddle	<u>2655</u>	<u>2621</u>	<u>2690</u>
C	Fiddle	<u>2656</u>	<u>2622</u>	<u>2691</u>
D	Through-deck	<u>1200</u>	<u>1202</u>	<u>1203</u>
E	Through-deck	<u>1200</u>	<u>1200</u>	<u>1200</u>
F	Cam cleat	<u>468</u>	<u>150</u>	<u>150</u>

6:1 Internal

A 6:1 internal outhaul system is popular on small-to medium-sized offshore boats using a traveler car to carry the clew of the mainsail.

6:1

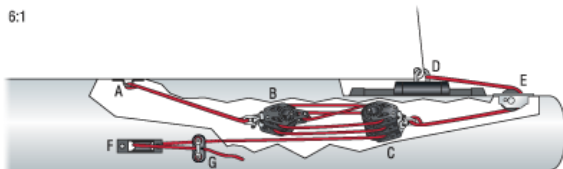


Diagram Ref.	Description	Small Boat Part No.	Midrange Part No.	Big Boat Part No.
A	Eyestraps	<u>201</u>	<u>137</u>	<u>1558</u>
B	Double	<u>407</u>	<u>343</u>	<u>2639</u>
C	Triple	<u>408</u>	<u>344</u>	<u>2640</u>
D	Traveler	<u>2727</u>	<u>T2701B</u>	<u>T2701B.HL</u>
E	Through-deck	<u>1200</u>	<u>1202</u>	<u>1203</u>
F	Through-deck	<u>1200</u>	<u>1200</u>	<u>1200</u>
G	Cam cleat	<u>468</u>	<u>468</u> <u>150</u>	<u>150</u>

2:1 Furling Main

Mainsails that furl into the mast are loose-footed and usually have a ball bearing outhaul car that rides the length of the boom. The outhaul starts at the car, leads through the clew block on the sail, back to the sheave on the car, and into the boom where it leads to a winch.



Diagram Ref.	Description	Small Boat Part No.	Midrange Part No.	Big Boat Part No.
A	Clew block	<u>371</u>	—	—
B	Traveler	<u>G222B</u>	<u>1648</u>	<u>3076</u>
C	Through-deck	<u>1200</u>	<u>1202</u>	<u>1203</u>

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