1. Primary Racing Controls

Mainsheet

Function (Racing):

- Controls **angle of attack**, **leech tension**, and **power**
- Primary depowering tool in puffs

Racing Use:

- Trim hard upwind until top telltale just stalls
- Ease slightly in puffs before hiking max
- Fast hands = speed

Traveler Control Lines

Function (Racing):

- Adjusts **boom position without changing sail shape**
- Keeps leech tension constant

Racing Use:

- **Up in lulls**, **down in puffs**
- Allows mainsheet to stay tight for pointing while controlling power

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Jib / Genoa Sheets

Function (Racing):

- Control headsail angle and slot between sails

Racing Use:

- Trim for max telltale flow (inside just lifting)
- Ease slightly in chop or heavy air
- Constant micro-adjustments

2. Critical Sail Shape Controls

Boom Vang

Function (Racing):

- Controls **leech tension independently of mainsheet**

Racing Use:

- **Upwind:** moderate tension to control twist
- **Downwind:** heavy vang to stabilize boom and prevent twist
- Essential in puffs when traveler is down

Cunningham

Function (Racing):

- Controls **draft position** in the mainsail

Racing Use:

- Light air: loose
- Medium: just remove wrinkles
- Heavy: tight to move draft forward and flatten sail

Outhaul

Function (Racing):

- Controls **depth of mainsail**

Racing Use:

- Light air: eased for power
- Heavy air: tight for flat sail and control

- Often adjusted between legs

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3. Rig & Luff Controls

Main Halyard

Function (Racing):

- Controls luff tension and draft height

Racing Use:

- Light air: slightly eased
- Heavy air: hard on to flatten
- Fine adjustment for changing breeze

Jib / Genoa Halyard

Function (Racing):

- Controls headsail draft and entry angle

Racing Use:

- Light air: softer entry
- Heavy air: tighter luff for pointing
- Key control for upwind speed

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4. Downwind & Optional Racing Controls

Spinnaker Halyard

- Raises/lowers spinnaker

Spinnaker Sheets & Guys

- Shape and fly the chute
- Constant trimming for curl and projection

Pole Topping Lift & Foreguy

- Control spinnaker pole height and stability
- Critical for proper spinnaker shape

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5. Controls Racers Usually Ignore While Racing

- **Boom Topping lift** (kept slack when sailing)
- **Outhaul Loosen** (up wind tighten downwind loosen)
- **Cunningham** (up wind tighten downwind loosen)
- **Backstay** (up wind tighten downwind loosen)