

CHALLENGER OF RECORD & DEFENDER AMERICA'S CUP 36

AC75 Interpretation 007 of AC75 Class Rule Version 1.1 issued 29 June 2018

Rule References:

20.1 (e), 20.5, 20.6, drawing 031_750_101A_Rig_and_Sailplan.dwg/pdf.

- 20.1 A drawing package for the **mast** will be issued according to Rule 34. This **mast** drawing package will include:
- (a) the **mast surface**;
 - (b) the minimum required **mast tube** laminate and construction details;
 - (c) details of the **supplied rigging**;
 - (d) details of **mast** fittings and spreaders, some of which may be specified as supplied components which must be sourced from a nominated supplier; and
 - (e) the rig plan, including required chainplate positions on the **hull**.
- 20.5 When stepped, the **mast** shall be positioned and tensioned on the **hull** as specified in the rig plan described in Rule 20.1 (e) .
- 20.6 The **mast** shall not be adjusted with respect to Rule 20.5 except for:
- (a) control of the forestay, which may be disconnected when the **code zero** is hoisted;
 - (b) control of the running backstay;
 - (c) adjustment of the lower shroud turnbuckle as specified in the **supplied rigging** drawings;
 - (d) control of **mast** rotation about **MRP** by action of a device attached to the **mast** within the **mast lower zone**; and
 - (e) movement of **control systems** within the **mast upper zone** and **mast lower zone** for the purpose of controlling the **mainsail**.
 - (f) incidental movement of fairings or mast components in the **mast lower zone** due to contact with the crew, **hull**, deck gear, rigging or other items attached to the **hull**.

Background:

Rule 20.5 sets conditions via Rule 20.1 (e) and the drawing “031_750_101A_Rig_and_Sailplan.dwg/pdf” how the **mast** has to be positioned and tensioned on the hull when stepped. For simplicity we call in this document the rake conditions specified via rule 20.5 in the notes of the drawing “031_750_101A_Rig_and_Sailplan.dwg/pdf” “dock tune condition”.

Once the **mast** is stepped only adjustments as authorised in Rule 20.6 are permitted.

The rules do not explicitly specify how the parameters in Rule 20.6 (c) to (e) must be set to satisfy the dock tune condition.

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Questions:

1. From the drawing "031_750_101A_Rig_and_Sailplan" we assume the following settings for the parameters in 20.6 (c) to (e) for the control of the "dock tune condition":
 - (a) With reference to Rule 20.6 (c): The team can choose the settings of the turnbuckles but the **mast** must be aligned with **LCP**.
 - (b) With reference to Rule 20.6 (d): The aft face of the **mast tube** must be perpendicular to **LCP**.
 - (c) With reference to Rule 20.6 (e): The team can choose the settings of the **control systems**.

Are these assumptions correct?

2. If any of our assumptions in Q1 are not correct can the Rules Committee provide guidance on how the parameters in Rule 20.6 must be set for the control of the "dock tune condition" and indicate the respective rules?
3. We assume: While sailing, a team can freely adjust the parameters in 20.6 within possible limits set by the Rules elsewhere. The "dock tune conditions" do not need to be respected permanently. It is sufficient that once all sails are lowered a team can at any moment get to a setting that satisfy Rule 20.5 using only the adjustments authorised in 20.6. Are those assumptions correct?
4. If the answer to Q3 is "NO" can the Rules Committee provide guidance on the limitations to be respected and indicate the respective rules?

Interpretation:

Not applicable.

Answers:

1.
 - a. Yes.
 - b. **Mast centre plane** shall be approximately in line with **LCP** as illustrated in "031_750_101A_Rig_and_Sailplan".
 - c. Rule 20.5 requires that the **mast** shall be positioned and tensioned on the hull as specified in the rig plan. The rig plan indicates that the **mast** position and rigging tension is achieved through just the **mast** and **supplied rigging**, so the Measurement Committee will require a **yacht** to be presented in a condition whereby the **mainsail control systems** are not influencing this condition.
2. **Control systems** detailed in 20.6(e) are for the purpose of controlling the **mainsail** and shall not be used to adjust the **mast** (outside of the tolerances provided in

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“031_750_101A_Rig_and_Sailplan”) without a **mainsail** hoisted. The measurement committee will require a **yacht** to be presented in a condition that enables them to determine that a **control system** is not being used for the purpose of modifying the “dock tune condition” outside of the given tolerances for rake and forestay tension.

3. Yes.
4. Not applicable.