RED, steady: System is disconnected. Press reconnect button to restore operability.

RED, flashing: System is in failure mode. Not possible to reconnect before the fault is fixed.

YELLOW, steady: Warning is active. System still operable.

YELLOW, flashing: Interceptor feedback fault. Drive interceptor up to prevent damage to the cylinder.

GREEN, steady: Thrust command is active in this device.

GREEN, flashing: Thrust command is in transfer mode.

GREEN, steady: Steering command is active in this device.

GREEN, flashing: Steering command is in transfer mode.

GREEN, steady: Sway and surge command is active in this device.

GREEN, flashing: Sway and surge command is in transfer mode.

Rolls-Royce

GREEN, steady: Joystick is in high gain mode.

YELLOW, steady: X-axis is disabled. Press reconnect joystick button to restore full maneuverability.

YELLOW, flashing: Uneven pair of waterjets. X-axis is disabled.

STEERING DEVICE



Reconnect PORT SIDE/ Dimming

Take command/ Release command

Reconnect STBD SIDE/ Dimming

THRUST LEVER



Idle RPM adjustment

Clutch in/ Clutch out PORT SIDE

Clutch reverse

Clutch in/ Clutch out STBD SIDE

JOYSTICK



Joystick high gain / low gain mode selector

Take command/ Release command

Reconnect/ Dimming

GREEN, steady: Autopilot is in command.

YELLOW, flashing: Interlock is preventing autopilot to take command.

GREEN, steady: Clutch is disengaged.

GREEN, flashing: System is disengaging the clutch.

GREEN, steady: Clutch is engaged.

GREEN, flashing: System is engaging the clutch.

YELLOW, flashing: Interlock is preventing clutch engagement.

BLUE, flashing: "Clutch reverse" command is active.

Quick Guide

Rolls-Royce Compact Control System

Before departure

1. Start the engine(s)

2. Make sure that the control station is in command

VERIFICATION:  is/are lit steady on the lever panel and

 is/are lit steady on the steering device

IF NOT: Take the station in command by pressing 

3. Make sure that the system is ready to use

VERIFICATION:  on the steering device (symbol is unlighted)

IF NOT: Reconnect the system by pressing  on each side

4. Turn the steering device and move the lever(s) and verify movement of the nozzle(s) and the bucket(s)

5. Make sure that the lever(s) is in middle position

6. Make sure that the engine(s) is running on idle rpm

IF NOT: Decrease rpm command by turning the idle knob counter-clockwise until the engine(s) is running on idle rpm

7. Engage the clutch(es)

Press  on each side and verify that  is/are lit steady on the lever panel.

You are ready for departure!

INFO

Disconnect mode
In case of failure, Rolls-Royce Compact Control System will go to disconnect mode in order to protect the crew and the vessel. This means that the control commands from the control system to the steering nozzle, the reversing bucket, the interceptor (if available) and the gear clutch will be locked to the position where they were before the system disconnection. Engine RPM command will be dropped to 0%.

System disconnection will be applied to the waterjet unit where the failure occurred. In order to restore operability of the waterjet unit, the system has to be reconnected.

Interlock
Rolls-Royce Compact Control System includes software built-in interlocks that are designed to ensure the safety of the crew and to protect the vessel and the machinery from undesired functioning of the control system. Interlocks block certain commands if conditions are not safe for the commands to take action.