

Thrustmaster 2960840

Thrustmaster TCA Quadrant Airbus Edition User Manual

Model: 2960840

1. INTRODUCTION

The Thrustmaster TCA Quadrant Airbus Edition is a highly realistic and immersive throttle quadrant designed for civil aviation flight simulation. Officially licensed by Airbus, this peripheral offers a true-to-life experience for virtual pilots, whether used independently or in conjunction with the TCA Sidestick Airbus Edition (sold separately). It features a comprehensive set of controls, including multiple action buttons, realistic detents, and a thrust reverser mechanism, all built with Thrustmaster's proprietary H.E.A.R.T (Hall Effect Accurate Technology) for unparalleled precision and durability.



Figure 1.1: Front view of the Thrustmaster TCA Quadrant Airbus Edition, showcasing its dual throttle levers and engine control panel.

2. SETUP

2.1 Package Contents

Before beginning the setup process, please ensure all components are present in the package:

- 1 x TCA Quadrant Airbus Edition

2.2 Hardware Installation

1. Place the TCA Quadrant on a stable, flat surface.
2. Connect the USB cable from the TCA Quadrant to an available USB port on your PC.

2.3 Software and Driver Installation

For optimal performance and customization, it is essential to install the latest drivers and the T.A.R.G.E.T software from the official

Thrustmaster website.

1. Visit the official Thrustmaster support website.
2. Locate the drivers and T.A.R.G.E.T software for the TCA Quadrant Airbus Edition.
3. Download and run the installer. Follow the on-screen prompts to complete the installation.
4. Restart your PC after installation is complete.

2.4 Calibration

After driver installation, it is recommended to calibrate the quadrant using the Thrustmaster software to ensure accurate axis response and detent recognition. Refer to the T.A.R.G.E.T software's instructions for detailed calibration steps, especially for setting center points and ensuring synchronized axis movement.

3. OPERATING THE TCA QUADRANT

3.1 Throttle Levers and Detents

The TCA Quadrant features two independent throttle levers with realistic detents that correspond to key flight phases:

- **IDLE:** Minimum thrust setting.
- **CLIMB:** Recommended thrust setting for climbing.
- **FLEX:** Flexible take-off thrust setting.
- **TO/NAV:** Take-off and navigation thrust setting.

These detents provide tactile feedback, allowing for precise control during different flight maneuvers. The quadrant also includes a thrust reverser mechanism for effective deceleration upon landing.

DISABLE DETENTS AND REVERSE ALLOWING TO PILOT ALL RANGES OF PLANES

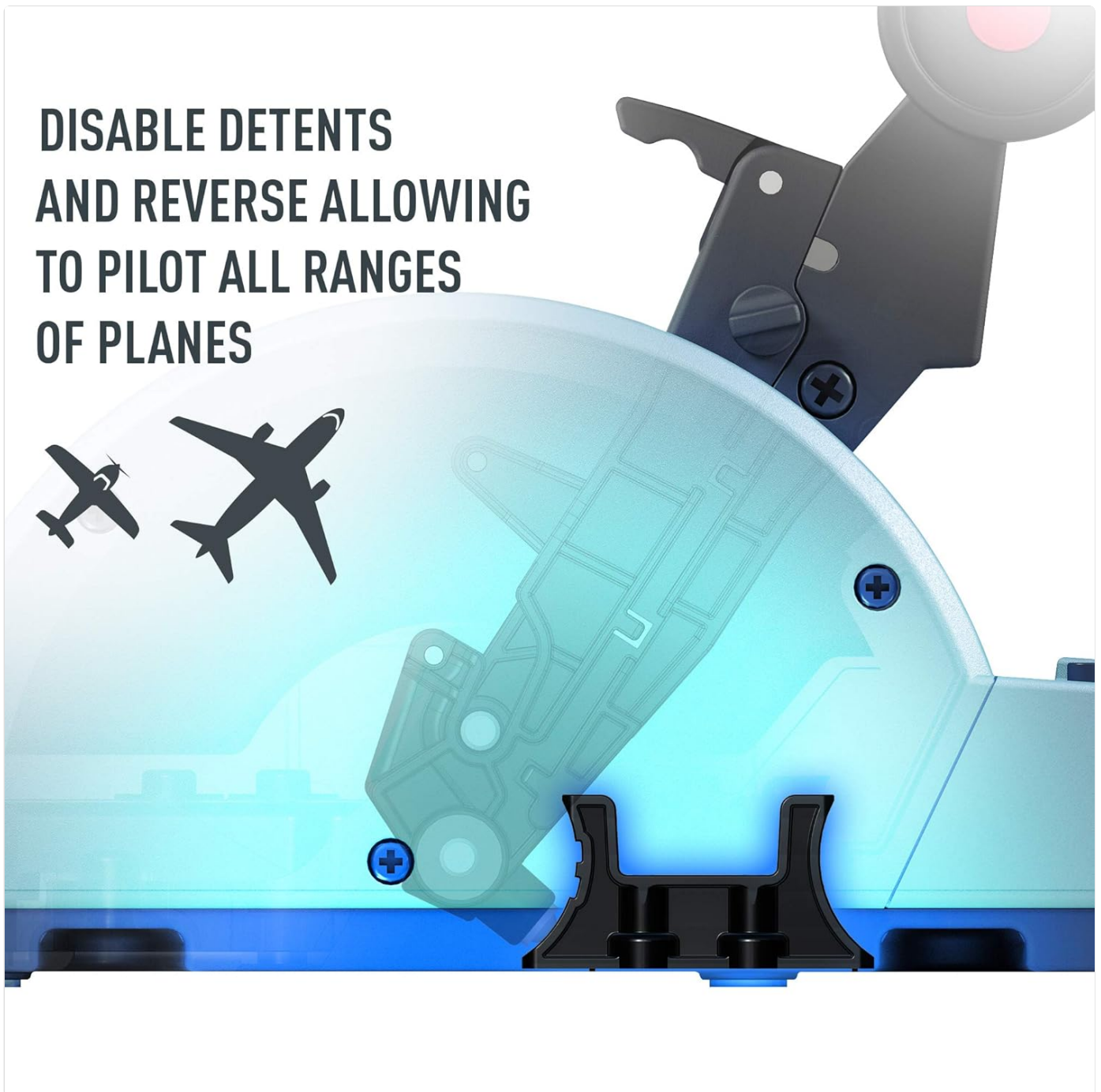


Figure 3.1: Illustration of the mechanism to disable detents and reverse, allowing for full range control across various aircraft types.

3.2 Engine Master Selector Switches

Two 'ENGINE MASTER' selector switches are located on the quadrant, providing control over engine ignition and start functions. These switches enhance realism and allow for proper engine management procedures within flight simulators.

3.3 Action Buttons and Axes

The TCA Quadrant features a total of 16 action buttons and 2 axes, offering extensive customization possibilities for various in-game functions. These buttons can be mapped to specific commands within your flight simulation software, such as landing gear, flaps, speed brakes, or other cockpit controls.



16 AIRBUS REPLICA FEELING ACTION BUTTONS + 2 AXES



Figure 3.2: The TCA Quadrant features 16 Airbus replica action buttons and 2 axes for comprehensive control.

3.4 Adjusting Tensioning Screw

The tensioning screw on the throttle quadrant allows you to adjust the resistance of the throttle levers. Turn the screw clockwise to increase tension for a firmer feel, or counter-clockwise to decrease tension for lighter movement. Adjust this according to your personal preference and the specific requirements of your flight simulation.

4. MAINTENANCE

To ensure the longevity and optimal performance of your TCA Quadrant, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the surface of the quadrant. Avoid using abrasive cleaners or solvents, as these can damage the finish.
- **Storage:** Store the quadrant in a clean, dry environment away from direct sunlight and extreme temperatures.
- **Internal Components:** The TCA Quadrant utilizes H.E.A.R.T (Hall Effect Accurate Technology) with contactless magnetic sensors. This design eliminates potentiometers, providing an unlimited lifespan for the internal components and reducing the

need for internal maintenance.

5. TROUBLESHOOTING

If you encounter issues with your TCA Quadrant, please refer to the following common troubleshooting steps:

- **Device Not Recognized:** Ensure the USB cable is securely connected to both the quadrant and your PC. Try a different USB port. Verify that the latest drivers are installed.
- **Axes Not Responding/Incorrectly Calibrated:** Re-run the calibration process using the Thrustmaster T.A.R.G.E.T software. Ensure that the axes are properly synchronized and that detents are recognized.
- **Buttons Not Functioning:** Check your in-game control settings to ensure buttons are correctly mapped. Verify that the quadrant is recognized by the T.A.R.G.E.T software.
- **In-Game Instability/Crashes:** Ensure all drivers (including graphics and chipset) are up to date. Conflicts with other peripherals or outdated software can sometimes cause issues.
- **Throttle Friction Too Low:** Tighten the tensioning screw on the side of the quadrant to increase resistance.

For further assistance, please visit the official Thrustmaster support website.

6. SPECIFICATIONS

Model Number	2960840
Product Dimensions	11.42 x 5.51 x 7.87 inches
Item Weight	2.14 Pounds
Connectivity	USB
Compatibility	PC (Windows 10, 8)
Technology	H.E.A.R.T (Hall Effect Accurate Technology)
Action Buttons	16
Axes	2
UPC (US & Canada)	0663296422613
UPC (International)	3362932915683

