Cosmic Byte®

switch to **GOD MODE**

STARFORGE

TRI MODE CONTROLLER

USER MANUAL

HIGHLIGHTS

BACK ("_")

FN

START ("+")

TURBO

Left Joystick (L3)

ABXY Button Switching

RGB1

Right Joystick (R3)

Directional Pad

RGB4

RGB2

RGB3

Home

Indicator light

Bumper RB (R1)

Pairing Key

Bumper LB (L1)

TriggerRT (R2)

TriggerLT (L2)

Two-level trigger lock RT

Two-level trigger lock LT

M4

M3

M2

M1

Connection Mode (Platform) Toggle Switch
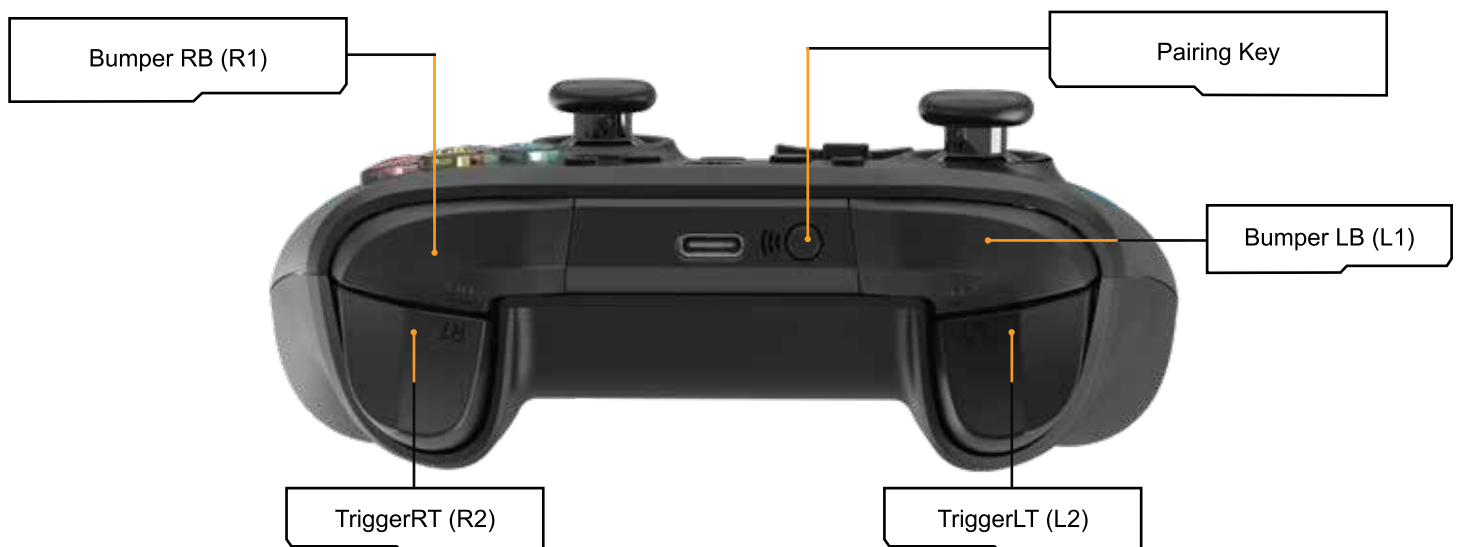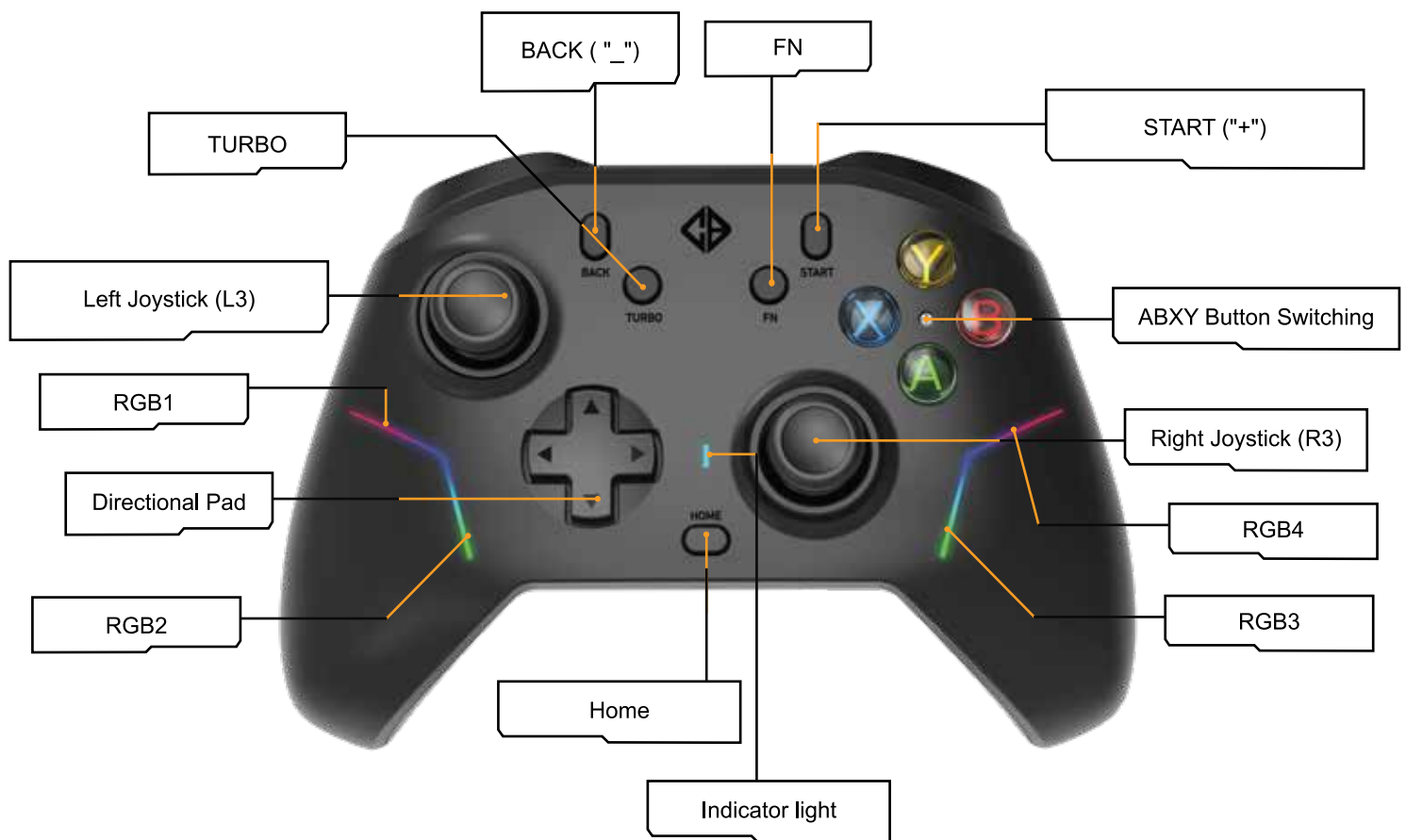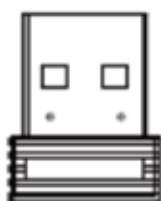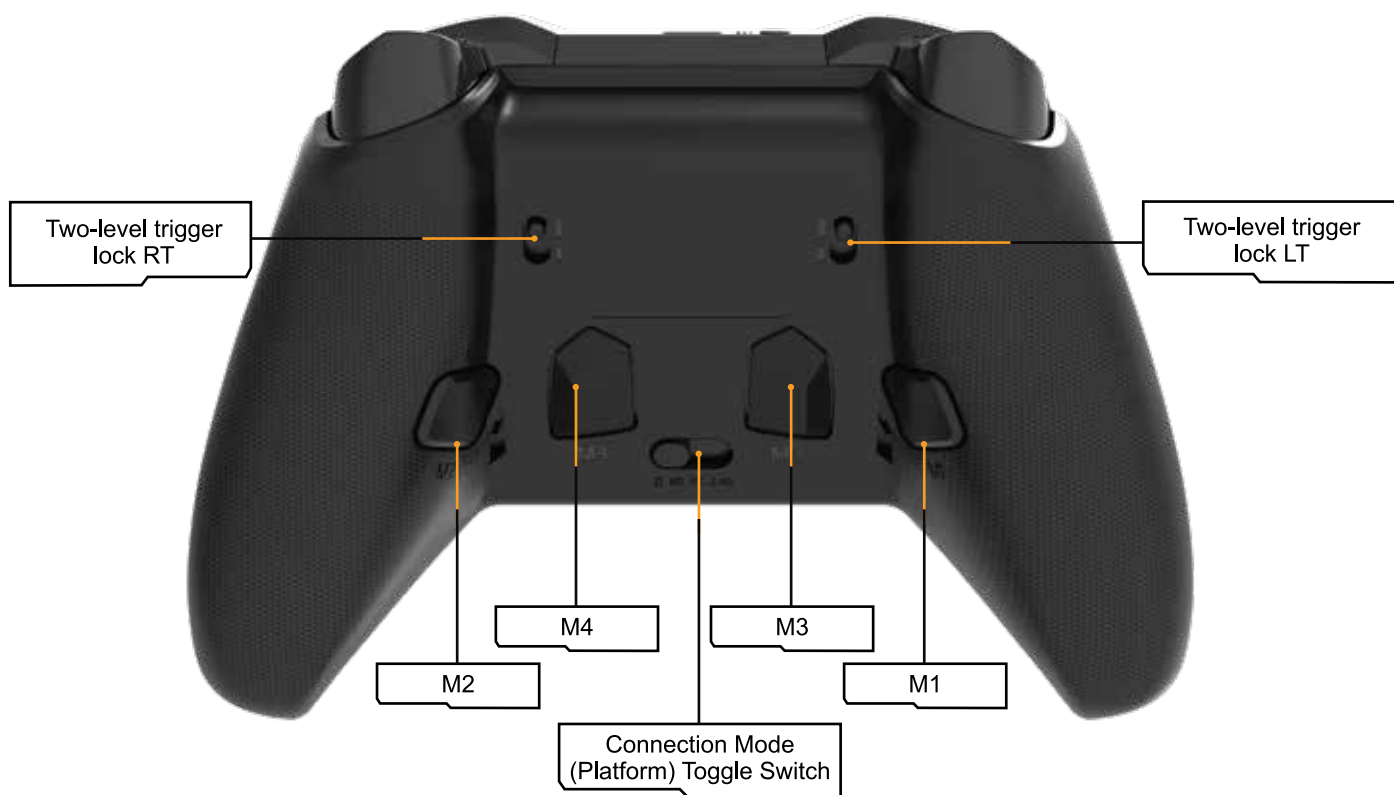
Mini Dongle

Joystick Clamp

PRODUCT OVERVIEW

The Starforge is a multi-platform gaming controller with support for 2.4GHz Wireless, Bluetooth, and Wired connection modes. It is compatible with:

- PC (XInput/DInput)
- Android/iOS (iOS 13.0+ with MFi-supported games, Android 8.0 above)
- Smart TVs
- Tesla Vehicles (via 2.4GHz mode)

- **Included Accessories**

  ◦ Mini 2.4G USB Dongle
  ◦ Joystick Clamp
  ◦ Magnetic Cover
  ◦ Type-C USB Cable (1.5m)
  ◦ User Manual

- **Mode Mapping**

  ◦ Mobile Mode – Android and iOS Wireless Controller
  ◦ NS Mode – Gyro Controller Mode
  ◦ PC Mode – PC Wireless Controller
  ◦ 2.4GHz Mode – PC Wireless Controller (X-Input)

OPERATION INSTRUCTIONS

1. **First-Time Connection**

   - **2.4GHz Wireless Mode**

     - Set the mode switch to 2.4G.
     - Insert the USB receiver into your device.
     - With the controller powered off, press and hold the Pairing button for 3 seconds.
     - The LED will flash rapidly; once it turns solid and the controller vibrates, pairing is complete.

- **Bluetooth Mode or Mobile Mode**

  - Set the mode switch to Bluetooth (PC) or Mobile Mode.

  - With the controller powered off, press and hold the Pairing button for 3 seconds.

  - On your device, open Bluetooth settings and connect to 'Xbox Wireless Controller'.

  - A solid LED and vibration confirm successful pairing.

  - Compatible with PC, Android, and iOS (13.0+ with MFi games).

- **Wired Mode**

  - Set the mode switch to PC.

  - Connect via USB Type-C cable.

  - Press and hold Back + Start for 3 seconds to switch between X and D Input Mode.

2. **Reconnection**

   - Short-press **Home** to automatically reconnect to the last device (if mode and device are unchanged).

3. **Joystick Adjustment**

- **Dead Zone Toggle**

  - Hold **L3 and R3** for 5 seconds to toggle between default and zero deadzone. Vibration confirms the change.

- **Active Zone Shape**

  - Hold **Fn + L3 or R3** for 1 second to toggle between circular and square zone. Vibration confirms the switch.

4. **Turbo & Auto-Fire Settings**

- **Manual Turbo**

  - Press Turbo + **[A/B/X/Y/LB/RB/LT/RT]** → Enables rapid fire while holding the button.

- **Auto Turbo**

  - Press the same combo again → Enables rapid fire on single press.

- **Cancel Turbo**

  - Repeat the same combo to cycle through turbo modes.

- **Clear All**

  - Hold Turbo for 5 seconds. Vibration confirms reset.

5. **RGB Light Strip Adjustment**

   - **Brightness:** Press Fn + Left D-pad

   - **Lighting Effects:** Press Fn + Right D-pad

6. **Vibration Adjustment**

   - **Increase Intensity:** Hold **Fn + Up D-pad**

   - **Decrease Intensity:** Hold **Fn + Down D-pad**

   - Five Levels: 0% (Off), 25%, 50%, 75%, 100%

7. **Switching ABXY Layout**

   1. Locate the screw in the middle of the ABXY buttons on the front side of the gamepad.

   2. Use the included screwdriver to rotate the screw.

   3. Rotate the screw clockwise or counterclockwise to switch between ABXY layout.

   4. A vibration will confirm the layout change.

8. **Rapid Trigger Adjustment**

   - Toggle the trigger travel switch (LT/RT) to change between short & long trigger travel.

9. **Calibration**

- **Stick and Trigger Calibration**

  To recalibrate the joysticks and triggers:

  1. Power off the controller.

  2. Press and hold **Back + X + Home** for 1 second to enter calibration mode.

  3. The left and right light strips will start flashing.

  4. Rotate both joysticks clockwise 5 full rotations.

  5. Fully press both long-distance triggers 5 times.

  6. Press the **Start** button — the light strips will turn off, indicating successful calibration.

- **Gyro Sensor Calibration**

  1. Power off the controller and place it flat on a stable surface.

  2. Press and hold **Back + A + Home** for 3 seconds to enter gyro calibration mode.

  3. The left and right indicator lights will flash.

  4. Press **Start** — the light strips will turn off, indicating successful calibration.

⚠ **Note**

- Calibration must be performed in **XBOX (ABXY)** layout mode.

- Perform calibration **after replacing joystick modules** or if you notice:

  ◦ Joystick drift

  ◦ Inconsistent response

  ◦ Incorrect range detection

  ◦ Any button registering automatically without being pressed

10. Programmable Buttons (M1/M2/M3/M4)

1. While connected, press and hold Fn + M1/M2/M3/M4 for 3 seconds. Light strip flashes.

2. Press the button to assign (e.g., A/B/etc.).

3. Press M1/M2/M3/M4 again to save.

⚠ **Only A/B/X/Y, D-Pad, LB/RB/LT/RT, L3/R3, Joystick Clicks, +/– are programmable.**

Up to **32 programmable buttons** allowed.

11. Power Off

- Hold **Home** button for 5 seconds to turn off manually.

- Auto power-off activates after **10 minutes** of **inactivity.**

JOYSTICK MODULE REPLACEMENT & CALIBRATION GUIDE

⚠️ **Note:** Only use compatible modular joystick units designed for the Starforge controller. Ensure the controller is powered off before starting.

60gf	**70gf**	**120gf**	**150gf**

1. **Power Off the Controller**

   - **Press and hold** the **Home** button for **5 seconds** to shut down the controller.
   - **Disconnect all cables** and **remove the USB dongle** if connected.

2. **Remove the Magnetic Top Cover**

   - Gently lift and remove the magnetic cover on the joystick side.
   - No tools are required — it's secured with magnets.

3. **Detach the Existing Joysticks**

   - Using the **included puller tool,** carefully **pull the joystick modules upward** to detach them from the socket.
   - The modules are **plug-and-play — no screws or tools** are needed.

4. **Align the New Joystick Module**

   - Take the **new joystick module** (with your preferred resistance/force).
   - **Align the connector pins** with the socket on the controller.
   - Ensure the **flat edge** of the joystick base **faces inward.**

5. **Insert the New Joystick**

   - **Press the joystick module firmly and evenly** down into the socket until it **clicks into place.**
   - **Important:** Apply **firm pressure** to ensure the joystick is **fully seated.**
   - If not properly fixed, it may cause **inconsistent response** or drift during calibration.

6. **Reattach the Magnetic Cover**

   - **Place the magnetic cover back** into position.
   - Make sure it's **properly aligned** and **snaps securely** into place.

7. Power On & Calibrate (Recommended)

- **Turn on** the controller.
- For accurate input detection, **calibrate the joysticks** using the steps below:

• **Calibration Steps:**

- **Power off** the controller.
- Press and hold **Back + X + Home** for **1 second** to enter calibration mode.
- The **LED light strips** will start flashing.
- **Rotate both joysticks** clockwise **5 full rotations.**
- **Fully press** both **triggers 5 times when trigger lock is at full range only.**
- Press **Start** — the light strips will turn off, confirming successful calibration.

STEPS TO RESET CONTROLLER

To reset the controller:

- Make sure the controller is powered off.
- Press and hold **LS + RS + Home** for 1 second.

   The red light will turn on for 1 second and then the controller will automatically power off, indicating a successful reset.

MOBILE APP DOWNLOAD

Download and install the "KeyLinker" App from the Google Play Store or Apple App Store for advanced customization and controller adjustments.

TRIGGER MOTOR VIBRATION ADJUSTMENT

You can switch between different trigger vibration modes by pressing both triggers and the Fn button simultaneously for 1 second. Each mode is indicated by a decorative light strip:

- Mode 1: Linear Vibration – Vibration strength increases with trigger depth. Light strip: RGB#1 ice blue for 3 seconds.
- Mode 2 (Default): Vibration in Bluetooth mode based on game's native vibration signals. Light strip: RGB#2 ice blue for 3 seconds.

- Mode 3: Synchronized with large motor vibration. Light strip: RGB#3 ice blue for 3 seconds.
- Mode 4: Trigger vibration off. Light strip: RGB#4 ice blue for 3 seconds.

⚠️ Default trigger vibration mode is Mode 2. The decorative light strip will flash ice blue corresponding to the selected mode for 3 seconds before returning to the current lighting effect.

TROUBLESHOOTING

If your controller isn't functioning properly, follow these steps to resolve common issues before contacting support.

Q1: Controller Not Powering On

- Ensure the controller is charged using the provided Type-C cable.
- Try connecting to a different USB port or use another data-capable cable.
- For wireless use, press and hold the Home button for 5 seconds to power it on.
- If still unresponsive, connect in wired mode to confirm power input.

Q2: Controller Not Detected (PC / Console / Mobile)

- Make sure the mode switch is correctly set:
  - **PC / 2.4G Mode:** For PC or console
  - **Mobile Mode:** For Android / iOS
- If connection is lost in 2.4GHz mode, re-pair using the controller's Pairing Button:
1. Set the mode switch to 2.4G.
2. Insert the USB receiver into your device.
3. With the controller powered off, press and hold the Pairing Button for 3 seconds.
4. The LED will flash rapidly; when it turns solid and the controller vibrates, pairing is complete.

   - For **Bluetooth mode,** pair the controller with **"Xbox Wireless Controller"** from your device's Bluetooth list.
   - If pairing fails, remove any previous connection and pair again.

Q3: Buttons or Triggers Not Responding

- Clear all turbo settings by **holding the Turbo button for 5 seconds** (vibration confirms).

- Ensure no third-party mapping software (e.g., Steam Input) is interfering.

- Reconnect or re-pair the controller and test again.

Q4: Wrong Input / Incorrect Button Mapping

If your buttons register incorrectly (e.g., A/B swapped):

1. Locate the small screw in the center of the ABXY buttons.

2. Use the provided screwdriver to rotate it clockwise or counterclockwise to switch between layouts.

3. A vibration confirms the layout change.

4. Restart the controller to apply the new layout.

Q5: Joystick Drift / Wrong Range / Error Rate / Wrong Input Direction

If the joysticks behave abnormally, drift, move inconsistently, or respond incorrectly:

Check Joystick Installation

- Power off the controller.

- Ensure the joystick module is **inserted straight and locked properly** into the socket.

- Press the joystick **firmly** down to ensure proper contact before calibration.

- Reattach the **magnetic cover** securely and align it correctly.

Calibrate Joysticks (Mandatory After Replacement or Issues)

- Place the controller on a **flat surface** and power it off.

- Press and hold **Back + X + Home for 1 second** — LEDs will begin flashing.

- Rotate both joysticks **clockwise 5 times** each.

- Press both triggers **fully 5 times when trigger lock is at full range only.**

- Press **Start** to save calibration.

- LEDs stop flashing — calibration is complete.

Important:

Calibration is **required every time** joystick modules are changed or replaced,

or if you notice **drift, inconsistent response, range errors,** or **any button automatically registering continuously without being pressed.**

Calibration has to operate under XBOX ABXY layout.

Q6: Vibration Not Working

- Increase vibration intensity using **Fn + Up D-Pad.**

- Ensure vibration is enabled in your game's settings.

- Update to the latest **Cosmic Byte Starforge** firmware on PC.

- Test in another game or device to verify hardware operation.

Q7: RGB Lights Not Working

- Adjust lighting effects or brightness with **Fn + Left / Right D-Pad.**

- Ensure the controller is not in power-saving mode.

- Reconnect the controller if LEDs remain off.

Q8: Gyro or Trigger Inaccuracy

If the gyro feels off:

- Place controller on a flat surface (powered off).

- Perform Gyro calibration using **Back + A + Home** for 3 seconds.

- Press **Start** to save calibration.

Q9: Firmware & Software

Keep your controller updated with the latest firmware using the **Cosmic Byte Starforge Firmware Tool** available on the official website.

⚠️ Do not disconnect the controller during the update.

Q10: Controller Reset (Factory Soft Reset)

If the controller becomes unresponsive, stuck, or behaves abnormally:

- Make sure the controller is powered off.

- Press and hold **LS + RS + Home** for 1 second.

- The red light will turn on for 1 second, and the controller will automatically power off, confirming a successful reset.

Use Controller Reset When:

- Buttons or joysticks stop responding completely.

- The controller fails to connect via Bluetooth or 2.4GHz even after re-pairing.

- The controller remains stuck in pairing or update mode.

- RGB or LED lights freeze or stop functioning correctly.

After reset, reconnect or re-pair the controller and recalibrate joysticks if necessary.

PRODUCT SPECIFICATIONS

ITEM	SPECIFICATION
1. Dimensions	156 × 105.5 × 66 mm
2. Weight	255g ± 10g
3. BT Version	5.3
4. Battery Capacity	1200 mAh (10–12 hrs playtime)
5. Input Voltage	5V = 500mA
6. Working Current	80–170mA
7. Idle Current	<20μA
8. Vibration Current	50–160mA
9. Charging Current	<500mA
10. Charging Time	3–4 hours
11. Wireless Range	~10m
12. Operating Temperature	0–40°C
13. Humidity Range	20–80%
14. Voltage Protection	Supported

⚠ Specifications are for reference only and subject to actual usage conditions.

Package Contents

- Starforge Gaming Controller × 1
- Magnetic Cover × 1
- 2.4G USB Receiver × 1
- Type-C USB Cable (1.5m) × 1
- User Manual x 1
- Extra Joystick Sets x 3
- Puller x 1
- Screwdriver x 1

Customer Care Number: +91 7351615161 (Mon-Sat 10am to 6pm)

WhatsApp Support: +91 7351615161

Email: cc@thecosmicbyte.com

WARRANTY

- The Starforge Tri-Mode Controller carries 1 year warranty against manufacturing defects only.
- Physical, water damage and tampered products are not covered under warranty.

Scan the QR Code to know the Warranty Claim Procedure.