

# Tri Auto ZX2+ Quick Guide Operation

- \* Be sure to read the accompanying Instructions for Use before using the Tri Auto ZX2+.
- \* These procedures are based on the default settings. When you change the default settings, be sure that the settings are correctly changed as you desired.
- \* Files require delicate handling; handle them with care.



2023-09-21  
Pub. No.: K352-80210-501 (en)



For more information, scan the QR code. ▶



## 1 Basic Usage

This procedure is recommended if you are new to the Tri Auto ZX2+. Only use two types of memory settings (m1 and m2).

**m1** 600 r/min  
CW CONT 3.0 N-cm  
**CONT Mode**

Example:  
Coronal flaring files

Enlarge the upper part of the canal so that the file can be inserted parallel to the tooth axis.

**Upper Part Enlargement**

Change the memory settings.

**m2** 500 r/min  
500 r/min 150 60 sec S <

Apply the contrary electrode.

**Check Canal Condition**

Whenever possible, insert the file into the canal without rotating it and check the condition inside the canal.

Hand File

You can perform patency with hand files if the canal condition seems simple.

**m2** AP 1 2  
06P2 OAS2  
**OGP2 Mode**

**Apex Location Linkage**  
The file slows down as it approaches the apex, and it stops rotation automatically when the file reaches the flash bar position.<sup>\*1\*</sup>

**Flash Bar Position: 0.5**  
(vicinity of the physiological apical foramen)

With the OGP2 mode, you can use all the files you are currently using.  
Example: CW EndoWave series, ProTaper series, Race series, HyFlex series, etc.  
CCW WaveOne series, RECIPROC series, etc.

Install a suitable file and perform from patency until shaping.<sup>\*3</sup>

**Patency**<sup>\*4</sup>

**Glide Path**

**Shaping**

**Turn Power On**

Main Switch

**Turn Power Off**

2 1 Hold down

**Tips for OGP2 Mode**

Push in for approx. 3 seconds

Withdraw

Repeat the following motion: To prevent the file from floating upwards, firmly press down the file for approximately 3 seconds, and then withdraw it.

◀ Video

**Apex Location with Tri Auto ZX2+**

While advancing the file in the root canal, when the canal length indicator bar shows 0.5 reading (▶), the motor stops automatically. Position a rubber stopper and perform apex location.

**Cleaning Method**

Hand File  
Rubber Stopper

Fill the root canal with cleaning liquid, then move the hand file up and down and perform patency again.

Perform after each file change.

<sup>\*1</sup> The motor automatically twists and then stops.

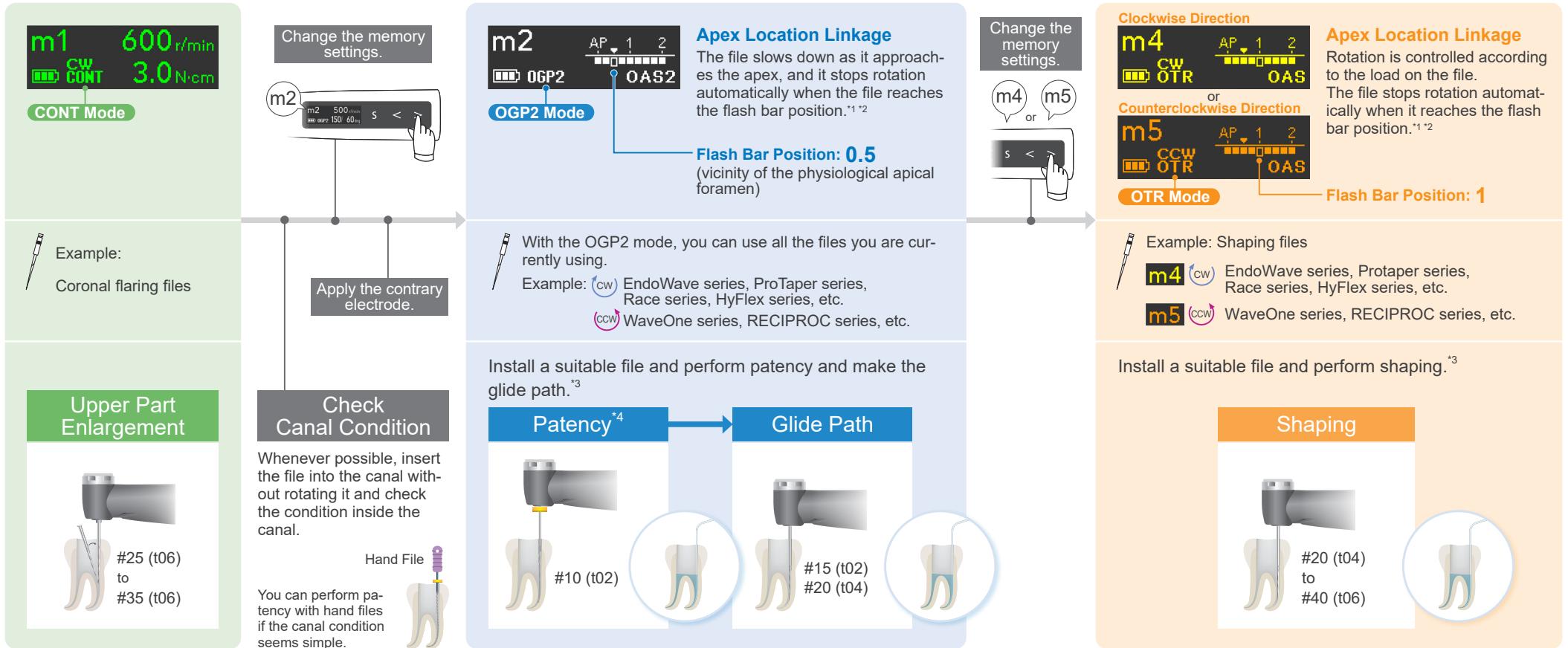
<sup>\*2</sup> If it is hard to withdraw the file, hold down the main switch to start the twist motion so you can easily withdraw the file.

<sup>\*3</sup> Follow each file manufacturer's sequence to select files.

<sup>\*4</sup> Skip this step if patency was made by hand files.

## 2 Advanced Usage

This procedure is recommended when you wish to improve cutting efficiency.



### Default Settings and Applications

Memory	m1	m2	m3	m4	m5	m6	m7	m8	m0	
Operation Mode	CONT	OGP2	OGP2	OTR	OTR	CONT	CONT	OGP	EMR	
Rotation Direction	(CW)	(CW) (CCW)	(CW) (CCW)	(CW)	(CCW)	(CW)	(CCW)	(CW)	—	
Speed	600	500	500	500	500	1000	200	100	—	
Flash Bar Position	0.5 (▼)	0.5 (▼)	1	1	1	0.5 (▼)	0.5 (▼)	0.5 (▼)	0.5 (▼)	
Applications	<b>Apex location can be performed with all memory numbers.</b>									
• Apex Location	✓	✓	✓	✓	✓	✓	✓	✓	✓	
• Upper Part Enlargement	✓	—	—	—	—	—	—	—	—	
• Patency and Glide Path	—	✓	✓	—	—	—	—	—	—	
• Shaping	—	✓	✓	✓	✓	—	—	—	—	
• Mechanical Root Canal Cleaning	—	—	—	—	—	✓	—	—	—	
• Injection of Intracanal Medicament	—	—	—	—	—	—	✓	—	—	
• Bypassing for Ledge	—	—	—	—	—	—	—	✓	—	

### Tips for OTR Mode

**Indication for Withdraw Timing**

When the file has rotated three times in reverse direction. (If the Withdraw Sounds is set to On, you will hear a sound with constant intervals.)

Repeat the following motion:  
Advance the file slowly; withdraw it quickly when it begins reverse rotation.

Video ▼

<sup>\*1</sup> The motor automatically twists or reverses before stopping.

<sup>\*2</sup> If it is hard to withdraw the file, hold down the main switch to start the twist motion so you can easily withdraw the file.

<sup>\*3</sup> Follow each file manufacturer's sequence to select files.

<sup>\*4</sup> Skip this step if patency was made by hand files.

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