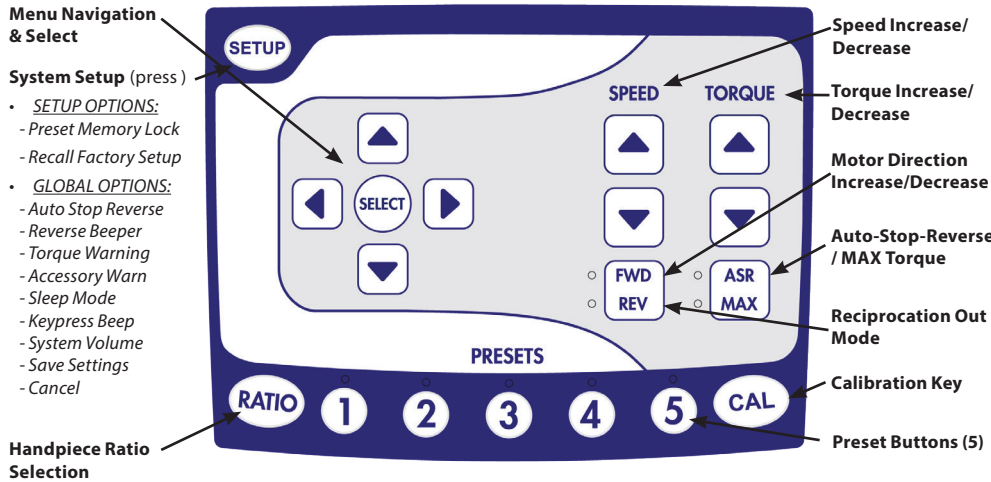


### Keypad Functions



**Initial out-of-box startup:** Connect motor and handpiece to system. Secure a file into handpiece and ensure that latch or collet is closed. Select handpiece ratio. It is important to select correct handpiece/ratio for the system to control speed and torque accurately.

**Calibration Procedure:** Press & release CAL button. Follow the on-screen prompts. To ensure torque accuracy, calibrate system daily or when switching handpiece. **WARNING:** During the calibration operation, the file will rotate through a preprogrammed speed range.

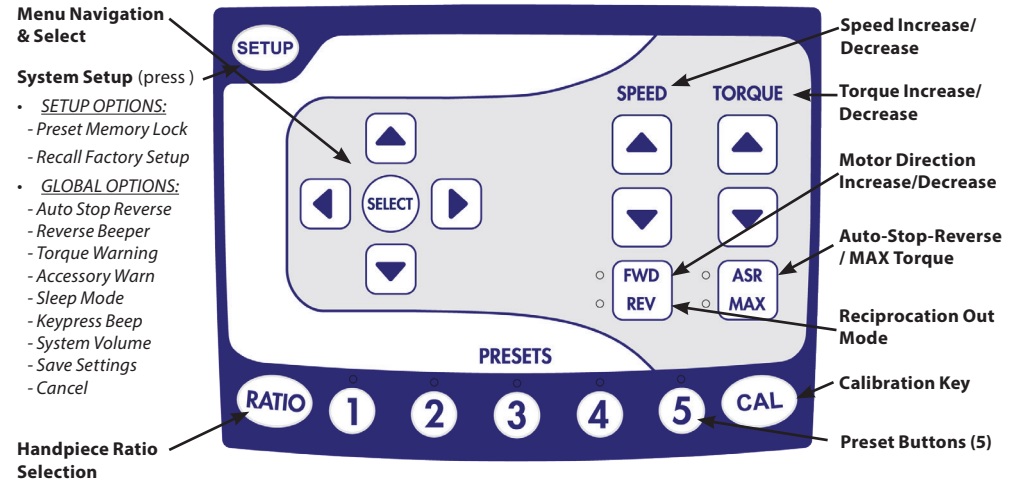
**Basic Operation:** Select the Preset Button corresponding to the endodontic rotary file series you are using. By default, the Preset Buttons are set for the file series shown below. Pressing the Preset Button repeatedly will cycle through the individual files listed below each series name. The Up/Down Arrow Buttons can also be used to cycle through the files, and the Right/Left Arrow Buttons can be used to navigate from Preset to Preset.

### Default Preset Chart

<p><b>Preset Button 1</b> Default File Series:          DENTSPLY Tulsa Dental Specialties TruNatomy™          File #1: TruNatomy Orifice Mod          File #2: TruNatomy Glider          File #3: TruNatomy Small          File #4: TruNatomy Prime          File #5: TruNatomy Medium          File #6: TruNatomy Large</p>	<p><b>Preset Button 4</b> Default File Series:          DENTSPLY Tulsa Dental Specialties ProTaper® Universal          File #1: ProTaper S1 &amp; SX          File #2: ProTaper S2 &amp; F1          File #3: ProTaper F2, F3, F4, F5          File #4: ProTaper D1 &amp; D2          File #5: ProTaper D3</p>
<p><b>Preset Button 2</b> Default File Series:          DENTSPLY Tulsa Dental Specialties WaveOne® All Files          File #1: WaveOne Gold (All)          An 8:1 handpiece is required for reciprocation.</p>	<p><b>Preset Button 5</b> Default File Series:          DENTSPLY Tulsa Dental Specialties VORTEX® 04, 06 Taper          File #1: VORTEX Orifice (All)          File #1: VORTEX 04, .35 through .50 taper          File #2: VORTEX 04, .25 and .30 taper          File #3: VORTEX 04, .15 and .20 taper          File #4: VORTEX 06, .35 through .50 taper          File #5: VORTEX 06, .25 and .30 taper          File #6: VORTEX 06, .15 and .20 taper</p>
<p><b>Preset Button 3</b> Default File Series:          DENTSPLY Tulsa Dental Specialties ProTaper Next™          File #1: PTN High Torque (All)          File #2: PTN Low Torque (All)</p>	

\*Refer to Directions For Use for advance features and programming.

### Keypad Functions



**Initial out-of-box startup:** Connect motor and handpiece to system. Secure a file into handpiece and ensure that latch or collet is closed. Select handpiece ratio. It is important to select correct handpiece/ratio for the system to control speed and torque accurately.

**Calibration Procedure:** Press & release CAL button. Follow the on-screen prompts. To ensure torque accuracy, calibrate system daily or when switching handpiece. **WARNING:** During the calibration operation, the file will rotate through a preprogrammed speed range.

**Basic Operation:** Select the Preset Button corresponding to the endodontic rotary file series you are using. By default, the Preset Buttons are set for the file series shown below. Pressing the Preset Button repeatedly will cycle through the individual files listed below each series name. The Up/Down Arrow Buttons can also be used to cycle through the files, and the Right/Left Arrow Buttons can be used to navigate from Preset to Preset.

### Default Preset Chart

<p><b>Preset Button 1</b> Default File Series:          DENTSPLY Tulsa Dental Specialties TruNatomy™          File #1: TruNatomy Orifice Mod          File #2: TruNatomy Glider          File #3: TruNatomy Small          File #4: TruNatomy Prime          File #5: TruNatomy Medium          File #6: TruNatomy Large</p>	<p><b>Preset Button 4</b> Default File Series:          DENTSPLY Tulsa Dental Specialties ProTaper® Universal          File #1: ProTaper S1 &amp; SX          File #2: ProTaper S2 &amp; F1          File #3: ProTaper F2, F3, F4, F5          File #4: ProTaper D1 &amp; D2          File #5: ProTaper D3</p>
<p><b>Preset Button 2</b> Default File Series:          DENTSPLY Tulsa Dental Specialties WaveOne® All Files          File #1: WaveOne Gold (All)          An 8:1 handpiece is required for reciprocation.</p>	<p><b>Preset Button 5</b> Default File Series:          DENTSPLY Tulsa Dental Specialties VORTEX® 04, 06 Taper          File #1: VORTEX Orifice (All)          File #1: VORTEX 04, .35 through .50 taper          File #2: VORTEX 04, .25 and .30 taper          File #3: VORTEX 04, .15 and .20 taper          File #4: VORTEX 06, .35 through .50 taper          File #5: VORTEX 06, .25 and .30 taper          File #6: VORTEX 06, .15 and .20 taper</p>
<p><b>Preset Button 3</b> Default File Series:          DENTSPLY Tulsa Dental Specialties ProTaper Next™          File #1: PTN High Torque (All)          File #2: PTN Low Torque (All)</p>	

\*Refer to Directions For Use for advance features and programming.



TRUNATOMY	Speed	Torque
File Size	(RPM)	(g-cm)
TRUNATOMY ORIFICE MOD	500	150
TRUNATOMY GLIDER	500	150
TRUNATOMY SMALL	500	150
TRUNATOMY PRIME	500	150
TRUNATOMY MEDIUM	500	150
TRUNATOMY LARGE	500	150

PATHFILE ALL <sup>1</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PATHFILE (ALL FILES)	300	120

PATHFILE INDIV FILES	Speed	Torque
File Size	(RPM)	(g-cm)
PATHFILE SIZE 19	300	120
PATHFILE SIZE 16	300	120
PATHFILE SIZE 13	300	120

WAVEONE ALL	Angle
File Size	(CW) (CCW)
WAVEONE GOLD (ALL)	30 150

PROTAPER NEXT <sup>2</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PTN HIGH TORQUE (ALL)	300	520
PTN LOW TORQUE (ALL)	300	200

PROTAPER UNIVERSAL	Speed	Torque
File Size	(RPM)	(g-cm)
PROTAPER S1 & SX	300	520
PROTAPER S2 & F1	300	150
PROTAPER F2 F3 F4 F5	300	312
PROTAPER D1 & D2	300	312
PROTAPER D3	500	150

PROTAPER UNIVERSAL I	Speed	Torque
File Size	(RPM)	(g-cm)
PROTAPER S1 & SX	300	520
PROTAPER S2 & F1	300	150
PROTAPER F2 F3 F4 F5	300	312

PROTAPER RETREAT	Speed	Torque
File Size	(RPM)	(g-cm)
PROTAPER D1	500	312
PROTAPER D2	500	312
PROTAPER D3	500	150

VORTEX 04, 06 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX ORIFICE (ALL)	500	520
VORTEX 04/ 35-50	500	132
VORTEX 04/ 25 & 30	500	104
VORTEX 04/ 15 & 20	500	75
VORTEX 06/ 35-50	500	368
VORTEX 06/ 25 & 30	500	290
VORTEX 06/ 15 & 20	500	195

VORTEX ORIFICE OPENER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX ORIFICE (ALL)	500	520

VORTEX 04 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX 04/ 35-50	500	132
VORTEX 04/ 25 & 30	500	104
VORTEX 04/ 15 & 20	500	75

VORTEX 06 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX 06/ 35-50	500	368
VORTEX 06/ 25 & 30	500	290
VORTEX 06/ 15 & 20	500	195

GT Series 20, 30, 40	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT YEL 20/10 & 20/08	300	312
GT YEL 20/06 & 20/04	300	174
GT BLU 30/10 & 30/08	300	347
GT BLU 30/06 & 30/04	300	208
GT BLK 40/10 & 40/08	300	405
GT BLK 40/06 & 40/04	300	230

GT ACC & 20s YELLOW	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT YEL 20/10 & 20/08	300	312
GT YEL 20/06 & 20/04	300	174

GT ACC & 30s BLUE	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT BLU 30/10 & 30/08	300	347
GT BLU 30/06 & 30/04	300	208

GT ACC & 40s BLACK	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT BLK 40/10 & 40/08	300	405
GT BLK 40/06 & 40/04	300	230

GT SERIES X (3)	Speed	Torque
File Size	(RPM)	(g-cm)
GT-X 20/04 & 20/06	300	175
GT-X 30&40 /04 & /06	300	210
GT-X 30/08 & 40/08	300	350

GT SERIES X (4)	Speed	Torque
File Size	(RPM)	(g-cm)
SERIES X 20/04 20/06	300	175
SERIES X 30/04 30/06	300	210
SERIES X 40/04 40/06	300	210
SERIES X 30/08 40/08	300	350

GT/PROFILE .04	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT 20/10 & GT 20/08	300	312
GT 20/06 & PF 35/04	300	132
PF 30/04 & PF 25/04	300	104
PF 20/04	300	75

**Note:**  
WAVEONE® and reciprocating files have factory dedicated settings that can not be manipulated by the user.

PROFILE S29 04 TAPER <sup>3</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PF S29 04 SIZE 7 & 6	300	132
PF S29 04 SIZE 5 & 4	300	104
PF S29 04 SIZE 3 & 2	300	75

PROFILE S29 06 TAPER <sup>3</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PF S29 06 SIZE 7 & 6	300	368
PF S29 06 SIZE 5 & 4	300	290
PF S29 06 SIZE 3 & 2	300	195

PROFILE ORIFICE OPENER	Speed	Torque
File Size	(RPM)	(g-cm)
PF 00 SIZE 6 & 5	300	510
PF 00 SIZE 4 & 3	300	400
PF 00 SIZE 2 & 1	300	256

PROFILE ISO 04 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
PF ISO 40/04 & 35/04	300	132
PF ISO 30/04 & 25/04	300	104
PF ISO 20/04 & 15/04	300	75

PROFILE ISO 06 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
PF ISO 40/06 & 35/06	300	368
PF ISO 30/06 & 25/06	300	290
PF ISO 20/06 & 15/06	300	195

ITR EMULATION SERIES	Speed	Torque
File Size	(RPM)	(g-cm)
ACC	500	1000
MAX	300	625
CORONAL	300	250
MID	300	150
APICAL	300	70

LEXICON GATES V 1.20 <sup>4</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
LEXICON GATES #6	3000	1000
LEXICON GATES #5	3000	750
LEXICON GATES #4	3000	700
LEXICON GATES #3	3000	400
LEXICON GATES #2	3000	240
LEXICON GATES #1	3000	150

PRO-POST DRILLS <sup>4</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PRO-POST DRILLS	2000	1000

RECIPROCATION	Angle
File Size	(CW) (CCW)
CLOCKWISE RECI	150 30
COUNTERCLOCKWISE RECI	30 150

- Torque is set at user's preference.
- Recommended torque is between 200-500 g-cm.
- S29 represents SERIES 29<sup>4</sup>
- Lexicon Gates and Pro-Post Drills are not compatible with 1/16 reduction hand-pieces, which have a maximum speed of 1800 RPM



TRUNATOMY	Speed	Torque
File Size	(RPM)	(g-cm)
TRUNATOMY ORIFICE MOD	500	150
TRUNATOMY GLIDER	500	150
TRUNATOMY SMALL	500	150
TRUNATOMY PRIME	500	150
TRUNATOMY MEDIUM	500	150
TRUNATOMY LARGE	500	150

PATHFILE ALL <sup>1</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PATHFILE (ALL FILES)	300	120

PATHFILE INDIV FILES	Speed	Torque
File Size	(RPM)	(g-cm)
PATHFILE SIZE 19	300	120
PATHFILE SIZE 16	300	120
PATHFILE SIZE 13	300	120

WAVEONE ALL	Angle
File Size	(CW) (CCW)
WAVEONE GOLD (ALL)	30 150

PROTAPER NEXT <sup>2</sup>	Speed	Torque
File Size	(RPM)	(g-cm)
PTN HIGH TORQUE (ALL)	300	520
PTN LOW TORQUE (ALL)	300	200

PROTAPER UNIVERSAL	Speed	Torque
File Size	(RPM)	(g-cm)
PROTAPER S1 & SX	300	520
PROTAPER S2 & F1	300	150
PROTAPER F2 F3 F4 F5	300	312
PROTAPER D1 & D2	500	312
PROTAPER D3	500	150

PROTAPER UNIVERSAL I	Speed	Torque
File Size	(RPM)	(g-cm)
PROTAPER S1 & SX	300	520
PROTAPER S2 & F1	300	150
PROTAPER F2 F3 F4 F5	300	312

PROTAPER RETREAT	Speed	Torque
File Size	(RPM)	(g-cm)
PROTAPER D1	500	312
PROTAPER D2	500	312
PROTAPER D3	500	150

VORTEX 04, 06 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX ORIFICE (ALL)	500	520
VORTEX 04/ 35-50	500	132
VORTEX 04/ 25 & 30	500	104
VORTEX 04/ 15 & 20	500	75
VORTEX 06/ 35-50	500	368
VORTEX 06/ 25 & 30	500	290
VORTEX 06/ 15 & 20	500	195

VORTEX ORIFICE OPENER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX ORIFICE (ALL)	500	520

VORTEX 04 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX 04/ 35-50	500	132
VORTEX 04/ 25 & 30	500	104
VORTEX 04/ 15 & 20	500	75

VORTEX 06 TAPER	Speed	Torque
File Size	(RPM)	(g-cm)
VORTEX 06/ 35-50	500	368
VORTEX 06/ 25 & 30	500	290
VORTEX 06/ 15 & 20	500	195

GT Series 20, 30, 40	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT YEL 20/10 & 20/08	300	312
GT YEL 20/06 & 20/04	300	174
GT BLU 30/10 & 30/08	300	347
GT BLU 30/06 & 30/04	300	208
GT BLK 40/10 & 40/08	300	405
GT BLK 40/06 & 40/04	300	230

GT ACC & 20s YELLOW	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT YEL 20/10 & 20/08	300	312
GT YEL 20/06 & 20/04	300	174

GT ACC & 30s BLUE	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT BLU 30/10 & 30/08	300	347
GT BLU 30/06 & 30/04	300	208

GT ACC & 40s BLACK	Speed	Torque
File Size	(RPM)	(g-cm)
ACC 90,70,50,35/12	500	700
GT BLK 40/10 & 40/08	300	405
GT BLK 40/06 & 40/04	300	230

GT SERIES X (3)	Speed	Torque
File Size	(RPM)	(g-cm)
GT-X 20/04 & 20/06	300	175
GT-X 30&40 /04 & /06	300	210
GT-X 30/08 & 40/08	300	350

GT SERIES X (4)	Speed	Torque
File Size	(RPM)	(g-cm)
SERIES X 20/04 20/06	300	175
SERIES X 30/04 30/06	300	210