***12-key tenoroon,* Jean-Nicholas SAVARY JEUNE (8), Paris, ca.1842**			
BASIC - OUTSIDE			**Comments**
Joint lengths	**mm**	**mm**	
Standing length to bell	999		
Standing length to wing joint	661		
Wing joint length	387		
Wing joint - tenon length	43.2		
Butt joint length	317		
Long joint length	486		
Long joint - south tenon length	44.3		
Long joint - north tenon length	30.7		
Bell length	260		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	173		
Wing - tone hole 2 distance from north	205		
Wing - tone hole 3 distance from north	235		
Butt - tone hole 4 distance from north	78.4		
Butt - tone hole 5 distance from north	109.8		
Butt - tone hole 6 distance from north	141.4		
Butt - tone hole F distance from north	243		
Butt - tone hole E distance from north	105.2		
Butt - tone hole Ab distance from north	264		
Butt - tone hole F# distance from north	217		
Long joint - tone hole D distance from north	430		

***12-key tenoroon,* Jean-Nicholas SAVARY JEUNE (8), Paris, ca.1842**			
Long joint - tone hole Eb distance from north	377		
Long joint - tone hole C distance from north	271		
Long joint - tone hole Bb distance from north	100		
Wing - major axis at tone hole 1	45.5		
Wing - major axis at tone hole 2	45.5		
Wing - major axis at tone hole 3	47		
Butt - major axis (side to side) at tone hole 4	59.6		
Butt - minor axis (front to back) at tone hole 4	46.4		
Butt - major axis (side to side) at tone hole 5	58.6		
Butt - minor axis (front to back) at tone hole 5	44.9		
Butt - major axis (side to side) at tone hole 6	57.5		
Butt - minor axis (front to back) at tone hole 6	43.5		
Butt - major axis (side to side) at tone hole F	52		
Butt - minor axis (front to back) at tone hole F	41.5		
Butt - major axis (side to side) at tone hole E	58.5		
Butt - minor axis (front to back) at tone hole E	45.8		
Butt - major axis (side to side) of the bottom butt ellipse	46.8		
Butt - minor axis (front to back) of the bottom butt ellipse	36.8		
Butt - major axis (side to side) of the top butt ellipse	58.4		
Butt - minor axis (front to back) of the top butt ellipse	45.6		
Long joint - minor axis (front to back) at tone hole D	34.9		
Long joint - major axis (side to side) at tone hole D	33.9		Platform
Long joint - minor axis (front to back) at tone hole Eb	34.7		
Long joint - major axis (side to side) at tone hole Eb	34.9		

***12-key tenoroon,* Jean-Nicholas SAVARY JEUNE (8), Paris, ca.1842**			
Long joint - minor axis (front to back) at tone hole C	37.4		Tone hole brass-lined
Long joint - major axis (side to side) at tone hole C	36.3		
Long joint - minor axis (front to back) at tone hole Bb	39		
Long joint - major axis (side to side) at tone hole Bb	37.6		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	x		
Wing - tone hole 2 angle	x		
Wing - tone hole 3 angle	x		
Wing - tone hole 1 approx. Ø	6.4	10	
Wing - tone hole 2 approx. Ø	7.9	8.7	
Wing - tone hole 3 approx. Ø	6.8	8.3	
Wing - tone hole 1 approx. length	43.7		
Wing - tone hole 2 approx. length	31.8		
Wing - tone hole 3 approx. length	34.3		
Butt - tone hole 4 angle	x		
Butt - tone hole 5 angle	x		
Butt - tone hole 6 angle	x		
Butt - tone hole E angle	x		
Butt - tone hole 4 approx. Ø	7.7	12.2	
Butt - tone hole 5 approx. Ø	8.1	10	
Butt - tone hole 6 approx. Ø	6.9	9.1	
Butt - tone hole E approx. Ø	8.8	10.2	
Butt - tone hole 4 approx. length	25		
Butt - tone hole 5 approx. length	22.6		

***12-key tenoroon,* Jean-Nicholas SAVARY JEUNE (8), Paris, ca.1842**			
Butt - tone hole 6 approx. length	22		
Butt - tone hole E approx. length	18.8		
Butt - cork major axis (side to side)	39.4		
Butt - cork minor axis (front to back)	20.4		
Long joint - tone hole C angle	x		
Long joint - tone hole C Ø	10.3		
Long joint - tone hole C approx. length	x		
BASIC - INSIDE			
Inner bore length			
Bore length	1663.3		
Wing bore length	390		
Butt - small bore length	305		
Butt - big bore length	306		
Butt - small bore socket length	44.7		
Butt - big bore socket length	44.9		
Butt - small bore beginning of septum	276		
Butt - big bore beginning of septum	275		
Long joint length	488		
Bell length	260		
Inner bore beginning Ø (not socket!)	**Min.**	**Max.**	
Wing bore Ø north	x		Internal Ø bocal well 10.5
Wing bore Ø south	13.7		
Bocal well length	22.5		
Butt - small bore Ø north	13.8		

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Butt - big bore Ø north	22	22.4	
Long joint Ø north	28.6		
Long joint Ø south	21.7		
Bell bore Ø north	28.3	38.7	Bell flares; min is end of bore
Bell bore Ø south	29.7	30	
Bell socket length	31.1		
Bocal Ø at the beginning	3.8		
Bocal thickness at the beginning	0.2		
Bocal Ø at the tenon	7.7		
Bocal thickness at the tenon	0.5		
Bocal length (along top)	245		
COMPLETE - OUTSIDE	**Min.**	**Max.**	
Bocal well thickness with ferrule	3.7	4	
Bocal well ferrule thickness	0.6		
Wing - tenon thickness	2.6	3.1	
Wing - tenon northern extern. Ø	21		
Wing - tenon southern extern. Ø	19.1		
Wing - tone hole A distance from north	82.3		
Wing - tone hole A angle	x		
Wing - tone hole A extern. Ø	x		
Wing - tone hole A approx. length	x		
Wing - tone hole C distance from north	46		
Wing - tone hole C angle	x		
Wing - tone hole C extern. Ø	4		

***12-key tenoroon,* Jean-Nicholas SAVARY JEUNE (8), Paris, ca.1842**			
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	1.8		
Butt - small socket thickness with ferrule	1.9		
Butt - top ferrule thickness	0.8		
Minimum wall thickness between butt sockets	3		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	19.5		
Butt - small bore cork Ø - bottom	19.3		
Butt - wood wall between cork/front - small bore	6.6		
Butt - wood wall between cork/front - big bore	6.6		
Butt - wood wall between cork/back - small bore	5.7		
Butt - wood wall between cork/back - big bore	5.7		
Wood wall between cork/side - small bore	2.4		
Wood wall between cork/side - big bore	3.8		
Butt - bottom ferrule thickness	0.7		
Long joint - south tenon thickness	2.7		
Long joint - south tenon northern extern. Ø	29.3		
Long joint - south tenon southern extern. Ø	27.3		
Long joint - north tenon thickness	2.4		
Long joint - north tenon northern extern. Ø	33.8		
Long joint - north tenon southern extern. Ø	34.2		
Bell socket thickness with brass	1.9		
Brass thickness of the bell ferrule	0.5		
Bell ferrule height	30		
Tone hole angle, Ø, length			

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Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F♯ angle	x		
Butt - tone hole Ab approx. Ø	9.7		
Butt - tone hole F approx. Ø	7.3		
Butt - tone hole F♯ approx. Ø	5.5		
Butt - tone hole Ab approx. length	x		
Butt - tone hole F approx. length	x		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	x		
Long joint - tone hole E ♭ angle	x		
Long joint - tone hole B ♭ angle	x		
Long joint - tone hole D approx. Ø	x		
Long joint - tone hole E ♭ approx. Ø	7.6		
Long joint - tone hole B ♭ approx.Ø	12.1		Tone hole inset
Long joint - tone hole D approx. length	x		
Long joint - tone hole E ♭ approx. length	x		
Long joint - tone hole B ♭ approx. length	x		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	246		
Wing - tone hole 2 distance from south	171		
Wing - tone hole 3 distance from south	139		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		

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Butt - tone hole 4 distance from north	65		
Butt - tone hole 5 distance from north	115		
Butt - tone hole 6 distance from north	154		
Butt - tone hole Ab distance from north	x		
Butt - tone hole F distance from north	x		
Butt - tone hole F♯ distance from north	x		
Butt - tone hole E distance from north	112		
Long joint - tone hole D distance from north	427		
Long joint- tone hole E ♭ distance from north	x		
Long joint - tone hole C distance from north	x		
Long joint - hole B ♭ distance from north	x		
Bell - vent hole distance from north	x		
EXTRAS			
Long Joint - C# tone hole distance from north	170		
Long joint - B tone hole distance from north	43		