



## **Official Competition Manual 2018/2019**

Sound Quality Multi Media ESQ ESPL EMMA tuning



**Addendum**

<b>SQ Sound Quality</b>
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### X - Category (Expert)

Protection of speakers and does the vehicle allow a normal use is not required in X Unl.

<b>Matrix Installation</b>						
	<b>E</b>	<b>S</b>	<b>M</b>	<b>X</b>	<b>X Unl</b>	
Max. points	<b>65</b>	<b>111</b>	<b>161</b>	<b>231</b>	<b>325</b>	
Presentation to the public	10	10	10	10	10	10
Bonus Presentation to the public			5	5	5	5
Cleanliness	6	6	6	6	6	6
System documentation			10	10	10	10
Explanation of system to the judges			5	10	10	10
Main fuse(s) present y/n	10	10	10	10	10	10
Are all wires to the components fused?		15	15	15	15	15
Is the fuse value appropriate to the wire size?		20	20	20	20	20
Any interior wires visible?		5	5	5	5	5
Wires properly terminated?			5	5	5	5
Wire terminations protected y/n			10	10	10	10
Wires protected from damage y/n			5	5	5	5
Are all components securely mounted?	24	24	24	24	24	24
Protection of speakers	5	5	5	5	5	
Does the vehicle allow a normal use?		6	6	6	6	
First Optic impression	10	10	10	10	10	10
Craftsmanship			10	50	50	50
design of interior				5	10	10
design of trunk				5	10	10
Overall design of vehicle					10	10
Bonus points				15	100	100

## ESPL (EMMA Sound Pressure League)

<b>Matrix ESPL =&gt; ESPL T 1000€ has now simplified rules:</b>			
	<b>T 1000€</b>	<b>T1-4 / R / B / W</b>	<b>Expert</b>
	<b>60+</b>	<b>112+</b>	<b>122+</b>
Measurement with open doors			
Measurement with closed doors			
Install Max. Points	<b>60</b>	<b>112</b>	<b>122</b>
Presentation to the public	10	10	10
Cleanliness	6	6	6
Main fuse(s) present y/n	10	10	10
Are all wires to the components fused?		15	15
Is the fuse value appropriate to the wire size?		20	20
Any interior wires visible?		5	5
Are all components securely mounted?	24	24	24
Does the vehicle allow a normal use?		6	6
Visibility		6	6
First Optic impression	10	10	10
Overall design of vehicle			10

<b>Subwoofer Matrix</b>					
	<b>Subwoofer size</b>	<b>Trunk</b>	<b>Trunk</b>	<b>Trunk</b>	<b>B/R, Wall</b>
		<b>1 Woofer</b>	<b>2 Woofers</b>	<b>4 Woofers</b>	<b>16 Woofers</b>
	6,5"	2	4	8	32
	8"	1	3	6	24
	10"	1	2	4	16
	12"	-	1	2	8
	15"	-	-	1	5
	18"	-	-	1	4
	21"	-	-	-	2
	33"	-	-	-	1

Explanation of woofer size:

Number of woofers	Size of woofer		Classification	Circumference (No longer than)
1x	<b>25cm =10"</b>	Equals	1 woofer	<b>78,5cm</b>
1x	<b>30cm = 12"</b>	Equals	2 woofer	<b>94,2cm</b>
3x	<b>20cm = 8"/6"x9"</b>	Equals	2 woofer	<b>62,8cm (per 8")</b>
1x	<b>38cm =15"</b>	Equals	3 woofers	<b>119,3cm</b>
1x	<b>46cm =18"</b>	Equals	4 woofers	<b>144,4cm</b>

## ESQL (EMMA Sound Quality League)

- **The cap for the SPL-measurement can be applied by the choice of the national organization. On EMMA-Eurofinals, it will be used as following:**
  - ESQL Limited (T-1W, T-2W, T-4W if divided) 135 dB
  - ESQL Unlimited (T-Unlimited, B/R- Unlimited, W- Unlimited if divided) 145 dB
- **Each dB above 100dB counts as 1 point**
- **Visibility will not be judged in ESQL**

<b>Matrix ESQL</b>			
		<b>L</b>	<b>U</b>
		<b>327(+)</b>	<b>337(+)</b>
	Measurement with open doors	35(+)	45(+)
	Sub-Bass Section 1	15	15
	Sub-Bass Section 2	15	15
	Mid-Bass	30	30
	Midrange	30	30
	High Freq.	30	30
	Overall spectral balance	30	30
	Listening pleasure	30	30
	Bonus for enjoyment to public	6	6
	<b>Install Max Points</b>	<b>106</b>	<b>106</b>
	Presentation to the public	10	10
	Cleanliness	6	6
	Main fuse(s) present y/n	10	10
	Are all wires to the components fused?	15	15
	Is the fuse value appropriate to the wire size?	20	20
	Any interior wires visible?	5	5
	Are all components securely mounted?	24	24
	Does the vehicle allow a normal use?	6	6
	First Optic impression	10	10