

**1S ONLY**

**INTERNATIONAL FEDERATION OF MODEL AUTO RACING**

**Batteries received by IFMAR for approval, from 2013. NOTE: Batteries shown on lists: 2010 - 2012 are also allowed.**

IFMAR rules do not limit capacity or power output of batteries. Values below are Manufacturers data. -- Packs factory sealed (glue, weld etc).

Battery packs must be able to be disconnected within the Car quickly without the use of tools. Direct soldering is not allowed.

**It is essential that batteries on this list are charged using a 1S LiPo compatible charger.** It is advisable to restrict charge rates to 1C.

**It is strictly NOT ALLOWED, to charge Lithium Batteries to give an output voltage exceeding :-**

1S LiPo - 4.20v.




Closed LiPo 'Sack' must be used when charging.

**2023 IFMAR PRODUCTS LIST -- 1S Stick Lithium Batteries. 11.03.23**

**BATTERIES ON THIS HOMOLOGATION LIST HAVE BEEN CERTIFIED FOR COMPLIANCE WITH UN38.3, TESTS T1-T8.**

| Submitted by:   | Label Details, Part #            | Illustration only   | Manufacturer Supplied Data.   | IFMAR measured Specification,  | Approval Date |
|---|----------------------------------|---|---|--|---------------|
| <b>BATTERIES BELOW THIS LEVEL ARE APPROVED BY IFMAR FOR 2023 WORLD CHAMPIONSHIP EVENTS.</b> |                                  |   |   |  |               |
| Calandra Racing   | CRC Rocket Fuel # CRC 37151      |    | Calandra<br>LiPo 1S 3.7v.<br>27.75 Wh. 150C<br>Max charge rate: 1C<br>5 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>154/166 g.</b> | 11.03.23      |
| Calandra Racing   | CRC Rocket Fuel # CRC 3715       |    | Calandra<br>LiPo 1S 3.7v.<br>31.45 Wh. 130C<br>Max charge rate: 1C<br>5 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>163/177 g.</b> | 11.03.23      |
| Kiel Technology   | Fyrrework ECP plus # F74200-1S2P |   | Kiel<br>LiPo 1S 3.7v.<br>27.3 Wh. 200C<br>Max charge rate: 3C<br>5 mm. Tubes      | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 11.03.23      |
| Kiel Technology   | Fyrrework ECP plus # F85130-1S2P |  | Kiel<br>LiPo 1S 3.7v.<br>31.4 Wh. 130C<br>Max charge rate: 3C<br>5 mm. Tubes      | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>157/171 g.</b> | 11.03.23      |
| LRP   | LRP G4.1 Modified # 431268       |  | LRP<br>LiPo 1S 3.7v.<br>30.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes       | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>153/165 g.</b> | 11.03.23      |
| Nosram  | Nosram G4.1 Modified # 999740    |  | Nosram<br>LiPo 1S 3.7v.<br>30.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes    | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 11.03.23      |
| ProTek RC   | ProTek RC # PTK-5105-22          |  | ProTek<br>LiPo 1S 3.8v.<br>33.4 Wh. 130C<br>Max charge rate: 3C<br>4 mm. Tubes    | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>146/158 g.</b> | 11.03.23      |
| Team EAM  | EAM # EAM75130-1                 |  | EAM<br>LiPo 1S 3.7v.<br>27.75 Wh. 130C<br>Max charge rate: 3C<br>5 mm. Tubes      | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 11.03.23      |
| Team EAM  | EAM # EAM85130-1                 |  | EAM<br>LiPo 1S 3.7v.<br>31.45 Wh. 130C<br>Max charge rate: 3C<br>5 mm. Tubes      | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>158/172 g.</b> | 11.03.23      |

**BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2019 AND ARE ALLOWED AT 2023 EVENTS.**

|                      |                       |  |   |  |          |
|----------------------|-----------------------|--|---|--|----------|
| Associated Electrics | Reedy Zappers # 27339 |   | Reedy<br>LiPo 1S 3.8v.<br>26.0 Wh. 110C<br>Max charge rate: 3C<br>4 mm. Tubes     | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 28.02.19 |
| Associated Electrics | Reedy Zappers # 27340 |   | Reedy<br>LiPo 1S 3.8v.<br>32.0 Wh. 80C<br>Max charge rate: 3C<br>4 mm. Tubes      | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 28.02.19 |
| Intellect Battery    | IP # CC1S6600HV4      |   | Intellect<br>LiPo 1S 3.8v.<br>25.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 28.02.19 |
| Intellect Battery    | IP # CC1S8200HV4      |   | Intellect<br>LiPo 1S 3.8v.<br>31.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 28.02.19 |
| Xiamen 3-Circles     | Sunpadow # S663067    |   | 3-Circles<br>LiPo 1S 3.7v.<br>23.3 Wh. 130C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>150/162 g.</b> | 28.02.19 |
| Xiamen 3-Circles     | Sunpadow # S682068    |  | 3-Circles<br>LiPo 1S 3.7v.<br>30.3 Wh. 100C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>159/173 g.</b> | 28.02.19 |


**BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2018 AND ARE ALLOWED AT 2023 EVENTS.**

|                      |                             |   |   |  |          |
|----------------------|-----------------------------|---|---|--|----------|
| Associated Electrics | Reedy Zappers # 27326       |  | Reedy<br>LiPo 1S 3.8v.<br>32.0 Wh. 110C<br>Max charge rate: 3C<br>4 mm. Tubes     | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |
| Freemax Technology   | Arrowmax # AM 700302        |  | Arrowmax<br>LiPo 1S 3.7v.<br>29.6 Wh. 110C<br>Max charge rate: 3C<br>5 mm. Tubes  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 21.02.18 |
| Intellect Battery    | IP # CC1S7000HV3            |  | Intellect<br>LiPo 1S 3.8v.<br>27.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |
| Intellect Battery    | IP # CC1S8200HV3            |  | Intellect<br>LiPo 1S 3.8v.<br>31.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |
| Italtrading          | EZ-Power # EZP8000/1        |  | Ital<br>LiPo 1S 3.8v.<br>30.4 Wh. 140C<br>Max charge rate: 3C<br>4 mm. Tubes      | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |
| LRP                  | LRP P4 Stock Spec. # 430270 |  | LRP<br>LiPo 1S 3.7v.<br>23.0 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes       | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |

|   |                                     |   |   |  |          |
|---|-------------------------------------|---|---|--|----------|
| LRP   | LRP<br>P4<br>Ultra LCG<br># 430268  |     | LRP<br>LiPo 1S 3.7v.<br>29.6 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes       | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>152/164 g.</b> | 21.02.18 |
| Neidhart SA   | Orion<br>Ultimate<br># ORI 14510    |    | Orion<br>LiPo 1S 3.7v.<br>26.6 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes     | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>136/148 g.</b> | 21.02.18 |
| Neidhart SA   | Orion<br>Ultimate HV<br># ORI 14500 |    | Orion<br>LiPo 1S 3.8v.<br>28.9 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes     | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>137/149 g.</b> | 21.02.18 |
| Tianco  | ORCA<br>HV Gen. 4<br># OBH4851S     |    | Tianco<br>LiPo 1S 3.8v.<br>32.3 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes    | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |
| Xiamen<br>3-Circles   | Sunpadow<br># 5660045               |    | 3-Circles<br>LiPo 1S 3.7v.<br>22.2 Wh. 120C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 21.02.18 |
| Xiamen<br>3-Circles   | Sunpadow<br># H680042               |    | 3-Circles<br>LiPo 1S 3.8v.<br>30.4 Wh. 100C<br>Max charge rate: 3C<br>4 mm. Tubes | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 21.02.18 |
| <b>BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2017 AND ARE ALLOWED AT 2023 EVENTS.</b> |                                     |   |   |  |          |
| Intellect<br>Battery  | IP<br>#<br>CC1S8200HV2              |  | Intellect<br>LiPo 1S 3.8v.<br>31.0 Wh. 120C<br>4 mm. Tubes                        | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>146/158 g.</b> | 11.03.17 |
| <b>BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2016 AND ARE ALLOWED AT 2023 EVENTS.</b> |                                     |   |   |  |          |
| Italtrading   | EZ-Power<br># EZP6600/1             |  | Ital<br>LiPo 1S 3.7v.<br>24.4 Wh. 70C<br>4 mm. Tubes.                             | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 10.01.16 |
| Intellect<br>Battery  | IP<br>#<br>CC1S8000SV1              |  | Intellect<br>LiPo 1S 3.7v.<br>30.0 Wh. 100C<br>4 mm. Tubes.                       | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>150/162 g.</b> | 10.01.16 |
| LRP   | LRP<br># 430249                     |  | LRP<br>LiPo 1S 3.7v.<br>30.0 Wh. 110C<br>4 mm. Tubes.                             | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>152/164 g.</b> | 10.01.16 |
| Muchmore<br>Racing  | Impact<br>#<br>MLI-T8000FD2         |  | Muchmore<br>LiPo 1S 3.7v.<br>29.6 Wh. 110C<br>4 mm. Tubes.                        | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 10.01.16 |
| Nosram  | Nosram<br>X-treme Race<br># 999542  |  | Nosram<br>LiPo 1S 3.7v.<br>30.0 Wh. 110C<br>4 mm. Tubes.                          | Max. dimensions :<br>93.0 x 47.0 x 18.5<br><br>Scrutineers Wt.<br>allowed: - <b>152/164 g.</b> | 10.01.16 |

|   |   |   |   |                |  |          |
|---|---|---|---|----------------|--|----------|
| Tianco  | ORCA Infinite<br># OBHG76S1                   |     | Tianco<br>LiPo 1S<br>28.1 Wh.<br>4 mm. Tubes            | 3.7v.<br>100C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>150/162 g.</b> | 10.01.16 |
| Neidhart SA   | Orion<br># ORI 14086                          |    | Orion<br>LiPo 1S<br>27.4 Wh.<br>4 mm. Tubes.            | 3.7v.<br>110C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>136/148 g.</b> | 10.01.16 |
| ProTek RC   | ProTek RC<br>#<br>PTK 5105-16                 |    | ProTek<br>LiPo 1S<br>27.4 Wh.<br>4 mm. Tubes            | 3.7v.<br>100C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>150/162 g.</b> | 10.01.16 |
| Associated<br>Electrics   | Reedy<br># 320                                |    | Reedy<br>LiPo 1S<br>30.0 Wh.<br>4 mm. Tubes.            | 3.7v.<br>70C   | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>154/166 g.</b> | 10.01.16 |
| Modern<br>Creations   | Team<br>Silverback<br>SpiralX<br># 7900901SIN |    | Modern Creations<br>LiPo 1S<br>29.2 Wh.<br>4 mm. Tubes. | 3.7v.<br>90C   | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>152/164 g.</b> | 10.01.16 |
| Yokomo  | Racing<br>Performer<br># RPB-80E              |    | Yokomo<br>LiPo 1S<br>29.6 Wh.<br>4 mm. Tubes.           | 3.7v.<br>100C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 10.01.16 |
| <b>BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2015 AND ARE ALLOWED AT 2023 EVENTS.</b> |   |   |   |                |  |          |
| Intellect<br>Battery  | IP<br># CC1S7000SV1                           |  | Intellect<br>LiPo 1S<br>26.0 Wh.                        | 3.7v.<br>100C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>139/151 g.</b> | 16.02.15 |
| LRP   | LRP<br># 430224                               |  | LRP<br>LiPo 1S<br>27.8 Wh.                              | 3.7v.<br>110C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 16.02.15 |
| Nosram  | Nosram<br>X-treme Race<br># 999518            |  | Nosram<br>LiPo 1S<br>27.8 Wh.                           | 3.7v.<br>110C. | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 16.02.15 |
| ProTek RC   | ProTek RC<br>#<br>PTK 5105-15                 |  | ProTek<br>LiPo 1S<br>20.0 Wh.                           | 3.7v.<br>100C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>139/151 g.</b> | 16.02.15 |
| <b>BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2014 AND ARE ALLOWED AT 2023 EVENTS.</b> |   |   |   |                |  |          |
| Associated<br>Electrics   | Reedy<br># 312                                |  | Reedy<br>LiPo 1S<br>26.0 Wh.                            | 3.7v.<br>65C   | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>149/161 g.</b> | 17.02.14 |
| Calandra<br>Racing<br>Concepts  | CRC Maxxcell<br>Rocket Fuel<br># CRC 3705     |  | CRC<br>LiPo 1S<br>25.9 Wh.                              | 3.7v.<br>90C   | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>146/158 g.</b> | 17.02.14 |

|   |                                  |   |  |               |  |          |
|---|----------------------------------|---|--|---------------|--|----------|
| Intellect Battery   | IP<br># CC1S7000V9               |     | Intellect<br>LiPo 1S<br>26.0 Wh.             | 3.7v.<br>90C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 17.02.14 |
| LRP VTEC  | VTEC<br># 430212                 |    | LRP<br>LiPo 1S<br>24.4 Wh.                   | 3.7v.<br>50C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>146/158 g.</b> | 17.02.14 |
| Muchmore Racing   | Muchmore Impact<br># MLI-T6400FD |    | Muchmore<br>LiPo 1S<br>23.7 Wh.              | 3.7v.<br>70C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 17.02.14 |
| Neidhart SA   | ORION Carbon Pro<br># ORI 14058  |    | Orion<br>LiPo 1S<br>25.9 Wh.                 | 3.7v.<br>100C | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>139/151 g.</b> | 17.02.14 |
| Nosram VTEC   | Nosram X-treme Race<br># 999509  |    | Nosram<br>LiPo 1S<br>24.4 Wh.                | 3.7v.<br>50C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>146/158 g.</b> | 17.02.14 |
| nVision   | nVision<br># NVO 1117            |    | nVision<br>LiPo 1S<br>25.9 Wh.               | 3.7v.<br>100C | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>136/148 g.</b> | 17.02.14 |
| Pro Models BVBA   | Corally<br># 48261               |   | Corally<br>LiPo 1S<br>23.7 Wh.               | 3.7v.<br>90C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>135/147 g.</b> | 17.02.14 |
| ProTek RC   | ProTek RC<br># PTK 5105-14       |  | ProTek<br>LiPo 1S<br>23.6 Wh.                | 3.7v.<br>100C | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 17.02.14 |
| Revtech Trinity Epic  | RevTech FormulaX<br># REV2018-5  |  | Revtech<br>LiPo 1S<br>26.3 Wh.<br>5mm. Tubes | 3.7v.<br>100C | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>146/158 g.</b> | 17.02.14 |
| Tianco  | ORCA Infinite<br># OB6890C5      |  | Orca<br>LiPo 1S<br>25.2 Wh.                  | 3.7v.<br>90C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 17.02.14 |
| <b>BATTERIES BELOW THIS LEVEL WERE APPROVED BY IFMAR FOR 2013 AND ARE ALLOWED AT 2023 EVENTS.</b> |                                  |   |  |               |  |          |
| LRP VTEC  | VTEC<br># 430202                 |  | LRP<br>LiPo 1S<br>25.5 Wh.                   | 3.7v.<br>50C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 14.02.13 |
| Nosram VTEC   | Nosram X-treme Race<br># 999502  |  | Nosram<br>LiPo 1S<br>25.5 Wh.                | 3.7v.<br>50C  | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>144/156 g.</b> | 14.02.13 |

|                                       |                         |  |                               |               |  |          |
|---------------------------------------|-------------------------|--|-------------------------------|---------------|--|----------|
| Yokomo                                | Max Power<br># YBP169BE |  | Yokomo<br>LiPo 1S<br>25.5 Wh. | 3.7v.<br>75C. | Max. dimensions :<br>93.0 x 47.0 x 18.5<br>Scrutineers Wt.<br>allowed: - <b>147/159 g.</b> | 14.02.13 |
| IFMAR UPDATE -- 11.03.2023. (6 Pages) |                         |  |                               |               |  |          |