



The Model Aerobatic Association  
of South Africa

## MAASA F15 SCHEDULE (from January 2014)

### **F-15.01 Double Immelman with $\frac{1}{2}$ rolls in both $\frac{1}{2}$ loops integrated, two consecutive two $\frac{1}{4}$ rolls in opposite direction to integrated rolls.**

From upright, pull through a  $\frac{1}{2}$  loop while performing a  $\frac{1}{2}$  roll integrated, immediately followed by consecutive two  $\frac{1}{4}$  rolls in opposite direction to the integrated roll, perform a horizontal line, pull through a  $\frac{1}{2}$  loop while performing a  $\frac{1}{2}$  roll integrated, immediately followed by consecutive two  $\frac{1}{4}$  rolls in opposite direction to the integrated roll, exit upright.

### **F-15.02 Stall Turn with consecutive three $\frac{1}{4}$ rolls up, $1\frac{1}{4}$ snap rolls down**

From upright, pull through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively three  $\frac{1}{4}$  rolls, perform a stall turn into a vertical downline, perform  $1\frac{1}{4}$  snap roll, push through a  $\frac{1}{4}$  loop, exit inverted.

### **F-15.03 Golf Ball with $\frac{3}{4}$ roll up, knife-edge loop with snap roll, $\frac{3}{4}$ roll down**

From inverted, push through a  $\frac{1}{8}$  loop into a  $45^\circ$  upline, perform a  $\frac{3}{4}$  roll, perform a  $\frac{3}{4}$  loop in knife-edge flight with a snap roll on top into a  $45^\circ$  downline, perform a  $\frac{3}{4}$  roll, pull through a  $\frac{1}{8}$  loop, exit upright.

### **F-15.04 Half Square Loop with consecutive two snap rolls in opposite directions**

From upright, pull through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively two snap rolls and in opposite directions, pull through a  $\frac{1}{4}$  loop, exit inverted.

### **F-15.05 Loop with consecutive two $\frac{1}{2}$ rolls in opposite directions integrated**

From inverted, pull through a loop while performing a  $\frac{1}{2}$  roll integrated in the first  $180^\circ$  of the loop and another  $\frac{1}{2}$  roll in opposite direction integrated in the second  $180^\circ$  of the loop, exit inverted.

### **F-15.06 Inverted Spin with $2\frac{1}{2}$ turns, $\frac{1}{2}$ roll down**

From inverted, perform an inverted spin with  $2\frac{1}{2}$  turns, perform a vertical downline, perform a  $\frac{1}{2}$  roll, pull through a  $\frac{1}{4}$  loop, exit upright.

### **F-15.07 Horizontal Triangular Circle with $\frac{1}{4}$ roll, $\frac{1}{2}$ outside rolls in each corner integrated $\frac{1}{4}$ roll**

From upright, perform a  $\frac{1}{4}$  roll in the centre, perform a horizontal triangular circle of equal side lengths while performing a  $\frac{1}{2}$  roll to the outside in each corner integrated, perform a  $\frac{1}{4}$  roll in the centre, exit upright.

### **F-15.08 Top Hat with consecutive two $\frac{1}{4}$ rolls up, snap roll down (Option: Consecutive three $\frac{1}{4}$ rolls up, $1\frac{1}{4}$ snap roll down)**

From upright, pull through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively two  $\frac{1}{4}$  rolls, pull through a  $\frac{1}{4}$  loop into a horizontal line, pull through a  $\frac{1}{4}$  loop into a vertical down line, perform a snap roll, pull through a  $\frac{1}{4}$  loop, exit upright.

Option: From upright, pull through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively three  $\frac{1}{4}$  rolls, pull through a  $\frac{1}{4}$  loop into a horizontal line, pull through a  $\frac{1}{4}$  loop into a vertical down line, perform a  $1\frac{1}{4}$  snap roll, pull through a  $\frac{1}{4}$  loop, exit upright.

### **F-15.09 Vertical Cuban 8 with consecutive four $\frac{1}{8}$ rolls up, consecutive two $\frac{1}{2}$ rolls down**

From upright, pull through a  $\frac{3}{8}$  loop into a  $45^\circ$  upline, perform consecutively four  $\frac{1}{8}$  rolls, pull through a  $\frac{3}{4}$  loop into a  $45^\circ$  downline, perform consecutively two  $\frac{1}{2}$  rolls, push through a  $\frac{3}{8}$  loop, exit inverted.

### **F-15.10 Half Square Loop on Corner with $\frac{1}{2}$ roll integrated in $\frac{1}{4}$ loop**

From inverted, push through a  $\frac{1}{8}$  loop into a  $45^\circ$  upline, push through a  $\frac{1}{4}$  loop into a  $45^\circ$  upline, while performing a  $\frac{1}{2}$  roll integrated in the  $\frac{1}{4}$  loop, pull through a  $\frac{1}{8}$  loop, exit inverted.

### **F-15.11 Horizontal Hour-Glass with consecutive two $\frac{1}{4}$ rolls, two $\frac{1}{4}$ rolls in opposite direction, consecutive two $\frac{3}{4}$ rolls in opposite directions**

From inverted, pull through a  $\frac{1}{4}$  loop into a vertical downline, pull through a  $\frac{3}{8}$  loop into a  $45^\circ$  upline, perform consecutively two  $\frac{1}{4}$  rolls, two  $\frac{1}{4}$  rolls in opposite direction, push through a  $\frac{3}{8}$  loop into a vertical downline, push through a  $\frac{3}{8}$  loop into a  $45^\circ$  upline, perform consecutively two  $\frac{3}{4}$  rolls in opposite directions, pull through a  $\frac{1}{8}$  loop, exit inverted.

### **F-15.12 Half Square Loop with consecutive two $\frac{1}{2}$ rolls**

From inverted, pull through a  $\frac{1}{4}$  loop into a vertical downline, perform consecutively two  $\frac{1}{2}$  rolls, pull through a  $\frac{1}{4}$  loop, exit upright.

### **F-15.13 Figure 9 with consecutive four $\frac{1}{4}$ rolls up, $\frac{3}{4}$ loop with roll integrated in top $180^\circ$**

From upright, pull through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively four  $\frac{1}{4}$  rolls, pull through a  $\frac{3}{4}$  loop while performing a roll integrated in the top  $180^\circ$  of the  $\frac{3}{4}$  loop, exit upright.

### **F-15.14 Split S with $1\frac{1}{2}$ snap roll**

From upright, perform  $1\frac{1}{2}$  snap roll and immediately pull through a  $\frac{1}{2}$  loop, exit upright.

### **F-15.15 Roll Combination with consecutive four rolls in opposite directions**

From upright, perform consecutively four rolls in opposite directions, exit upright.

### **F-15.16 Pull-Pull-Push Humpty-Bump with two $\frac{1}{2}$ roll in opposite direction up, roll down**

From upright, pull through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively two  $\frac{1}{2}$  rolls in opposite directions, pull through a  $\frac{1}{2}$  loop into a vertical downline, perform a roll, push through a  $\frac{1}{4}$  loop, exit inverted.

### **F-15.17 Stall Turn with consecutive six $\frac{1}{8}$ rolls up, $1\frac{1}{4}$ snap roll down**

From inverted, push through a  $\frac{1}{4}$  loop into a vertical upline, perform consecutively six  $\frac{1}{8}$  rolls, perform a stall turn into a vertical downline, perform  $1\frac{1}{4}$  snap roll, pull through a  $\frac{1}{4}$  loop, exit upright.