

# Dynamic WT9

Vliegclub Fryslân Versie 1.5 augustus '15 HSZ

## PRE-FLIGHT INSPECTION

1. **Cockpit**  
Flight controls for free movement..... Check  
Master switch ..... Off  
Ignition (magnetos) L&R ..... Off  
Loose items..... Stowe/Remove  
Instruments set "0" ..... Check  
Cockpit canopy lock..... Check  
Seat belts..... Inspect
2. **Wings**  
Fuel quantity in tanks..... Check  
Surface..... Check  
Pitot cover removed, free opening..... Check  
Leading edges no damage, clean..... Check  
Ailerons free movement/security..... Check  
Flaps without play, hinges /security..... Check
3. **Fuselage**  
Surface without damage..... Check  
Static port opening (2x)..... Check  
Cockpit wing walks no damage..... Check  
Beacon light no damage..... Check  
4. Tail surface without damage..... Check  
Control surface free movement/play ..... Check  
Auxiliary tail skid secure attachment..... Check
5. **Landing gear**  
Main wheel state tyres and pressure..... Check  
Brakes visually condition and leaks..... Check  
Legs damage and attachment ..... Check  
Nose wheel leg state tyre/pressure..... Check
6. **Power plant**  
Propeller attachment, leading edge blade,  
spinner for cracks..... Check  
Cowlings state and attachment..... Check  
Coolant level and oil level..... Check

**TOW BAR REMOVED !**

## BEFORE STARTING ENGINE

7. Tow bar..... Removed
8. Pre-flight check..... Completed
9. Required papers..... On board
10. Weight & balance..... Checked
11. Loose equipment..... Stowed
12. Seats..... Adjusted
13. Seat belts..... Fastened
14. Canopy cockpit..... Closed / locked
15. Brakes set on ..... Park
16. Controls, Trim and Flaps..... Check
17. Starter key insert..... Off
18. All switches ..... Off
19. Instruments..... Check
20. Master switch ..... On
21. Beacon light..... On
22. Fuel quantity..... Check

## STARTING ENGINE

23. Fuel selector position..... Left
24. Oil cooler flap (pull to)..... Close
25. Carburetor heat..... Off
26. Choke (only if necessary)..... On
27. Throttle..idle or 1/2 turn(right)..... Open
28. Brakes set on ..... Brake
29. Fuel pump..... On
30. Lights fuel reserve ..... Test
31. Propeller area..... Clear
32. Ignition (magnetos) switches L&R..... On
33. Starter key..... Start
34. Oil pressure ..... within 10 sec. 2 bar
35. Choke..... Off
36. Fuel pressure..... Check
37. Throttle..... 2000 rpm at least 2 min
38. Avionics..... On
39. Intercom ..... On
40. Transponder (standby position)..... On
41. Fuel pump (check pressure drop)..... Off
42. Engine warming up at 2500 rpm oil ... 50°C

## DURING TAXIING

43. Brakes..... Check
44. Magnetic compass..... Check

## ENGINE CHECK

45. Brakes (on "brake")..... Check
46. Throttle..... 3800 rpm
47. Ignition drop L&R.max. 300 rpm ... Check  
120 rpm max. ....diff. between L&R
48. Carburetor heat (drop rpm)..... Check
49. Engine instruments..... Check
50. Throttle idle 2000 rpm..... Check

## BEFORE TAKE-OFF

51. Seat belts..... Fastened
52. Canopy locked..... Check
53. Stick..... for free movement..... Check
54. Rudder.... for free movement..... Check
55. Trim position..... Check
56. Flaps..... "Take-off" position
57. Choke closed ..... Check
58. Carburetor heat..... Cold
59. Fuel selector position ..... Left
60. Fuel pump...(check pressure rise)..... On
61. Fuel quantity..... Check
62. Instruments /avionics..... Check
63. Landing light..... On
64. Oil cooler flap..... Open
65. Brakes..... Off

## TAKE-OFF

66. Throttle..... Fully open
67. Stick position..... Check
68. Rotate at..... 85 km/h
69. Accelerate..... to climb speed 120km/h
70. Flaps..... Retract at 200 ft
71. Throttle reduce at 200 ft..... < 5500 rpm

## CRUISE

72. Instruments / avionics..... Check
73. Carburetor heat..... Cold
74. Fuel selector position if Left 50% then  
select Right fuel tank..... Check
75. Fuel pump off..... Check
76. Landing light off..... Check
77. Best economy speed..... 140 km/h
78. Operation speed..... 180 – 200 km/h
79. With oil cooler flap set oil temp..... ± 90°C

## Snelheden (limieten + overige):

| Snelheden in Km/h |                                      | IAS |
|-------------------|--------------------------------------|-----|
| VNE               | <b>Nooit</b> overschrijden           | 280 |
| VNO               | Max.kruissnelheid                    | 250 |
| VRA               | Max. bij turbulent weer              | 230 |
| VA                | Max.manoeuvresnelh.                  | 165 |
| VFE               | Max snelheid flaps neer              | 140 |
| Vs                | Overtrek (0° flaps) **               | 60  |
| VSFE              | Overtrek (35° flaps) **              | 50  |
| VY                | Snelheid met max. klim               | 120 |
| Vg                | Optimale glij snelheid bij motor uit | 120 |
|                   | Max crosswind 12 kts =               | 22  |

Let op !

Bij max. afvlieggewicht 450 kg en standaardatmosfeer.

\*\* Bij max. afvlieggewicht 480 kg

Leeggewicht toestel ca. 288 kg.

Mankementen aan het toestel altijd vermelden in het journaal.

Daarna melden aan de technische commissie van Vliegclub Fryslân.

## **Waarschuwing**

Maak het cockpit glas niet zelf schoon, laat dit doen door een lid van de technische commissie of vraag hem om toestemming en advies voor dat je dit zelf gaat doen.

**Deze checklist in het**

**Toestel laten zitten**

### **APPROACH**

80. Approach speed..... 130 km/h
81. Altimeter setting..... Set
82. Avionics..... Set
83. Landing light.....On
84. Fuel selector.....Left
85. Fuel pump.....On
86. Seat belts..... Secure
87. Flaps (for landing).....position 1..... Set

### **DOWNWIND**

88. Engine instruments.....Check
89. Fuel quantity.....Check
90. Carburetor heat..... On
91. Brakes off ..... Check
92. Flaps (for landing) position 2 or 3..... Set
93. Trim as required for..... 110 km/h

### **AFTER LANDING**

94. Flaps..... Up
95. Trim..... Neutral
96. Carburetor heat ..... Cold
97. Transponder..... Stb

### **PARKING & SHUTDOWN**

98. Brakes set on..... Park
99. Fuel pump..... Off
100. All lights (except Beacon light)..... Off
101. Avionic switch.....Off
102. Intercom..... Off
103. Throttle..... Idle
104. Magneto switches..... Off
105. Master switch..... Off
106. Starter key .....Remove
107. Fuel selector position..... Left

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