

CHECKLIST

PH-USH

DV20 Katana

What to do in case of a serious incident / accident

- Leave the aircraft (make sure master switch, fuel and magneto's is off)
- Help injured people, if able and possible
- Call as soon as possible Wings over Holland. If nobody can be reached call Martinair Flight Academy
- Never leave the aircraft unguarded behind / coordinate when possible with emergency services.
- Do not communicate via VHF, unless mobile phone (network) is unavailable
- Do not speak with the press , but refer to the crisis team
- Do not give any information regarding the circumstances to anyone, but refer to the crisis team
- Do not communicate via SMS, email or on Twitter, Facebook etc.

Wings over Holland
+31(0)320-288260

Outside Office hours:
+ 31-(0) 6-51556098 (Luuk van Hooijdonk)

Martinair Flight Academy:
+31(0)320-288476

Outside office hours
+31-(0)6-5366 3047 (Frank de Jong)

- When unable to reach Wings over Holland and Martinair Flight Academy ILT should be notified as soon as possible by the Pilot in Command that a precautionary/emergency landing has occurred.

ILenT
+31(0)88-4890000

- NEVER take-off with the airplane again without explicit permission from Wings over Holland.



Checklist PH-USH

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Platform Inspection (No Smoking!)

- Ship papers - On board
- Emergency equipment - As desired
- Loose objects - Stowed
- Weight and Balance - Within limits

- Magnetos - Off
- Fuel selector - On
- Avionics switch - Off
- Electrical switches - Off
- Circuit breakers - In
- Battery switch - On
- Fuel quantity - Checked
- ACL lights - Checked and off
- Position lights - Checked and off
- Landing light - Checked and off
- Battery switch - Off
- Controls - Checked
- Trim - Checked and neutral

Walk Around

- General condition - Checked
- Fuel - Checked
- Fuel drain - Checked
- Air intakes (6x) - Checked
- Oil (automotive oil only) - Checked

Before Starting (Not in front of open Hangar!)

- Rudder controls - Adjusted
- Seat belts - Fastened
- Brakes - Set
- Canopy - Closed and locked (3x)



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Start Up

- Battery switch - On
- Fuel pressure light - On
- Fuel (booster) pump - On
- Fuel pressure light - Off
- ACL lights - On
- Low voltage light - Checked
- Carburetor heat - Off
- Propeller - High rpm
- Cabin heat - Off
- Outside - Clear

Cold Start		Warm Start	
Throttle	- Closed	Throttle	- 1 cm
Choke	- On	Choke	- Off

- Magnetos - Start then both
- Throttle - 1000 rpm
- Oil pressure (in 10-30 sec) - Checked
- Choke - Off
- Fuel (booster) pump - Off
- Warning lights - Off
- All flight instruments - Checked
- Flaps - Checked and up
- Avionics switch - On
- Transponder - Standby
- Time (block) - Noted
- Tachometer - Noted
- Brakes - Off

During Taxi

- Brakes - Checked
- Gyros - Checked

Run Up

Brakes	- Set
Throttle	- 1000 rpm
Engine instruments	- Checked
Outside	- Clear
Throttle	- 1700 rpm
Friction	- Set
Magnetos	- Checked
Carburetor heat	- Checked
Propeller (3x)	- Checked
Pressures	- Checked
Temperatures	- Checked
Ampere meter	- Checked
Throttle	- Idle
Rpm	- Checked (\leq 700 rpm)
Throttle	- 1000 rpm

Before Take-off

Canopy	- Closed and locked (3x)
Seat belts	- Fastened
Controls	- Free and easy
Fuel (booster) pump	- On
Magnetos	- Both
Carburetor	- Check for ice then off
Fuel selector	- On
Flaps	- Set
Choke	- Off
Propeller	- High rpm
Trim	- Set
All instruments	- Checked
Transponder	- ALT
Brakes	- Off



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Runway items

Runway heading - Checked
Wind direction - Checked

After 200ft AGL

Flaps - Up
IAS - 70 kts

After 500ft AGL

Propeller - 2400 rpm
Throttle - Checked (full power)
Engine instruments - Checked

Cruise checks

Throttle - Cruise setting
Fuel (booster) pump - Off (check warning lights)

Downwind checks

Fuel (booster) pump - On
Magnetos - Both
Carburetor heat - On
Fuel selector - On
Fuel quantity - Checked

Engine instruments - Checked

Seat Belts - Fastened
Brakes - Checked

Propeller - 2400 rpm
Throttle - 25 inch
Speed - 80 kts

Base Leg Checks

Throttle - Reduce
Flaps - Set (T/O)
Speed - 70 kts

Final Checks

Throttle - Reduce
Flaps - Set (Landing)
Propeller - High rpm
Speed - 60 kts



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After Landing Checks (after Runway vacated)

Fuel (booster) pump	- Off
Landing light	- Off
Flaps	- Up
Carburetor heat	- Off
Transponder	- Standby

After Parking Checks

Brakes	- Set
Throttle	- Idle
Electrical switches	- Off
Avionics switch	- Off
Magnetos	- Off, key removed
Battery switch	- Off
Time (block)	- Noted
Tachometer	- Noted



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Limitations

Maneuvering speed V_A 104 kts
 Max. flap extended speed V_{FE} 81 kts
 Max. structural cruising speed V_{NO} 116 kts
 Never exceed speed V_{NE} 157 kts
 Maximum demonstrated crosswind 15 kts

Maximum take-off rpm (3min) 2550 rpm
 Maximum continuous rpm 2420 rpm

Maximum take-off weight 730 kg
 Maximum landing weight 730 kg
 Maximum baggage weight 20 kg
 Maximum seat weight left 110 kg
 Maximum seat weight right 110 kg

Approved manoeuvres Normal flight manoeuvres
 Stalls (slow entry)
 Lazy eights 116 kts
 Chandelles 116 kts
 Steep turns max 60° bank
Note: spins are NOT approved

Maximum Load Factors			
Flaps Up		Flaps Extended	
Positive	- 4.4G	Positive	- 2.2G
Negative	- 2.2G	Negative	- 0 G

Total fuel quantity 79 liter
 Usable fuel quantity 77 liter

Fuel grades MOGAS minimum 95 octane leaded or unleaded
 AVGAS UL91
 AVGAS 100LL

USE KATANA OIL DON'T USE AIRCRAFT OIL