

PILOT AND FLIGHT ENGINEER - CHECK LIST - HALIFAX II

A. OUTSIDE AIRCRAFT

1. Pitot head cover 'OFF'
2. Inspect tyres for cuts and creep.
3. Inspect oleo legs.
4. Check undercarriage accumulator pressure at least 150 lbs.
5. Check undercarriage doors accumulator pressure at least 350 lbs.
6. Inspect Tail Wheel Unit.
7. Inspect Trimmer Tabs.
8. Check Form 700 - pilot initials.
9. Check turrets centralised and engaged.
10. Check engine cowls secure.

B. INSIDE AIRCRAFT

1. Pilot's controls unlocked and Locking Bar and Bolt stowed.
2. Check batteries connected up.
3. Port and starboard flap accumulators - pressure 500 lbs. flaps up - pressure 350 lbs. flaps down.
4. Flap isolating cocks, port and starboard unscrewed.
5. Port and starboard wing fuel balance cocks off.
6. Inter-wing fuel balance cock off.
7. Cocks for tanks Nos. 1 and 3 'ON' - and all others 'OFF'
8. Undercarriage uplocks fully disengaged and clips secured.
9. Bomb door accumulator pressure - 500 lbs. bomb doors closed.
350 lbs. bomb doors open.
10. Declutch hydraulic system if equipped with Messier Pump.
11. D.R. Compass 'ON'
12. Check Blackout in fuselage.
13. Air intake - 'COLD'
14. Radiator flaps - 'CLOSED'
15. Check FUEL by contents gauges.
16. 50% parachutes.
17. All equipment safely stowed.
18. Check with Navigator - correct signal cartridge for period.

C. BEFORE STARTING ENGINES - IN COCKPIT

1. Turn ON carburettor cock controls.
2. Fuel jettison valves CLOSED.
3. Check oxygen capacity and flow.
4. Landing Light recessed - (beam down)
5. Test controls for movement.
6. Test Call Light.
7. Test verge RING - check D.R. repeater with R. Compass.
8. Synchronise watch with navigator.

D. AFTER STARTING ENGINES - IN COCKPIT

1. Check inter-comm.
2. Run up engines and test magnto switches, C.S. control, and supercharger.
3. Test flaps, leaving them 'UP' - lever in neutral position.
4. Check Pesco Pumps.
5. Pitot Head Heater 'ON'
6. Check bomb doors CLOSED - lever in neutral position.
7. George - Clutch 'IN' - gyro 'SPIN'
8. Check brake pressure minimum 200 lbs.
9. Pilot adjusts safety harness.
10. Flight Engineer completes pre-flight entries in log.

NAVIGATOR - CHECK LIST

1. Blackout Curtains
2. Cockpit Lighting
 - (a) Test for free movement of Anglepoise lamps.
 - (b) Serviceability of bulbs.
 - (c) Rheostat control.
 - (d) Fitting of coloured filter.
3. Gee
 - (a) Test controls.
 - (b) Check reception.
 - (c) Check divider circuit.
4. Intercommunication and Oxygen Points
 - (a) Test for fitting and reception.
5. D.R. Compass
 - (a) Check synchronisation of repeater.
6. Astrograph
 - (a) Set correct Latitude band for trip.
7. Ensure that the following items are present and serviceable.

Correct Signal Cartridges for period.
 2 Sharp Pencils and a Sharpener .
 2 Rubbers.
 1 Navigational Computer Mk. III
 1 Pair Dividers
 1 Straightedge.
 1 Douglass Protractor.
 Air Almanac, current date.
 Air Navigation Tables, as appropriate.
 Bubble Sextant.
 Spare Batteries and bulb for Sextant.
 Form 44f and cover.
 Plotting Charts C.S.C.S. 4080 as appropriate.
 Lattice Charts as appropriate.
 Air Maps, scale 1 : 5,000,000 to cover the whole route.
 Air Maps, scale 1 : 250,000 to cover the whole route.
 Target maps as appropriate.
 List of secret information on rice paper.
 Planisphere.
 Message Pads.
 Route forecast and F.2330.
 Torch with spare battery and bulb.
 Height and Air Speed Computer.

8. Navigator's Watch. Wind and synchronise with crew.
9. Report to Captain 'Equipment Serviceable'.

NAVIGATOR'S DAILY INSPECTION

1. Check
 - (a) D.R. Compass.
 - (b) Repeater.
 - (c) Variation Setting Control.
2. " P.A. Compass.
3. " Deviation Cards.
4. " Intercomm.
5. " Oxygen supply.
6. " Astro compass and Mounting.
7. " Lighting.
8. " Gee.
9. "
 - (a) Sextant.
 - (b) Aircraft current supply to Sextant.
10. "
 - (a) Astro Dome for clear vision.
 - (b) De-misters.
11. " Astrograph.

AIR BOMBER - CHECK LIST

A. BEFORE FLIGHT

1. Stow parachute.
2. Visual bomb load check with Engineer.
3. Check photo flash.
4. Check bombing panel.

- (a) Connel Proselector Box.
- (b) Circuit and Indicator Light.
- (c) Time interval setting.

5. Camera

- (a) Electric Leads.
- (b) Height setting.
- (c) Security of equipment.

6. Bombight Mark XIV

- (a) Test function of computer.
- (b) Sighting head.
- (c) D.R. Repeaters synchronised.
- (d) Settings on Computer Box.

7. Test inter-comm. and oxygen supply.
8. Check maps.
9. Report to Captain 'Equipment Serviceable'.

B. BEFORE BOMBING

1. Camera heater switch on at freezing level.
2. Approaching target:

- (i) Check settings for B/S Computer Box.
- (ii) Select bombs for 1st stick and time entered in Nav. log.
- (iii) Check that Drum switch is at "Distributor".
- (iv) Check fuse switches are 'ON' and have Navigator to note in log.
- (v) Switch on bombight air cock and electrics and graticule.
- (vi) Ask Navigator re-check target W/V.

C. AFTER BOMBING

1. With bomb doors open - after bombing tests for hang-ups.
2. Close bomb doors.
3. Fusing switches off - bombight off - Jettison bars to safe.

D. LANDING In Second Pilots position.

WI/OP - CHECK LIST

1. Stow Parachute.
 2. Switch on inter-comm. and R/T, check with rest of crew.
 3. Check W/T equipment.
 4. Switch on I.F.P. and check reading.
 5. Check warning light.
 6. Check spares.
 7. When engines are run up check meter readings.
 8. Report to Captain 'Equipment Serviceable'.
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- A. TAKE OFF - Go to rest position.
 - B. BEFORE BOMBING - Reel in TRAILING AERIAL.
 - C. BEFORE LANDING - Switch OFF all equipment except Intercomm., R/T and I.F.P. and go to rest position.

MID UPPER GUNNER - CHECK LIST

1. Stow parachute.
2. Enter turret, plug in inter-comm. and check.
3. Check Call light and lighting system.
4. Switch on reflector sight and check.
5. Check spare reflector sight bulbs.
6. Check tools and cocking toggles are in turret.
7. Check guns for correct assembly.
8. When engines are running check turret for rotation and elevation.
9. Cock and Fire Guns on "Safe" for Feed Action.
10. Check ammunition.
11. Check fuses and spares.
12. Report to Captain 'Equipment Serviceable'.

- A. TAKE-OFF Go to Rest Position.
- B. AFTER TAKE OFF Ammunition track brakes to 'OFF' position.
- C. BEFORE LANDING Switch OFF motor and reflector sight - put ammunition track brakes 'ON'. Go to rest position.
- D. AFTER LANDING Clear guns.

REAR GUNNER - CHECK LIST

1. Stow parachute and examine ammunition tracks.
2. Check ammunition for non-jaming in base of turret.
3. Enter turret, close doors and ensure securely fastened.
4. Plug in inter-comm. and check oxygen.
5. Check call light and lighting system.
6. Switch on reflector sight and check, ensure spare bulbs in position.
7. Check fuses and spares.
8. Check for cocking toggle and tools.
9. Check guns for correct assembly.
10. When engines running, check turret for rotation and elevation.
11. Test gun firing solenoids.
12. Ensure guns fully loaded but on 'safe'.
13. Check shear bushes, ensure four spares in place.
14. Report to Captain 'Equipment Serviceable'.

- A. WHEN AIRBORNE
1. Guns to 'Fire'.
 2. Ammunition track brakes to 'OFF' position by M/U A/G.
- B. BEFORE LANDING
1. Ammunition brakes 'ON' by M/U A/G.
- C. AFTER LANDING
1. Clear guns.
 2. Ensure all switches and lights off.