

**CHECKLIST****Diamond DV20
OH-IHQ**

15.5.2014

BEFORE START

PREFLIGHT CHECKS (SEE AFM) COMPLETED
 BAGGAGE AND TOW BAR SECURED
 REQUIRED DOCUMENTS ONBOARD
 PEDALS ADJUSTED AND LOCKED
 SEAT BELTS FASTENED
 CANOPY CLOSED AND LATCHED
 PARKING BRAKE SET
 TRIM NEUTRAL
 THROTTLE FREE, IDLE
 PROPELLER SPEED CONTROL LEVEL FREE, MAX RPM
 CARBURETOR HEAT FREE, OFF
 FRICTION DEVICE OF THROTTLE QUADRANT ADJUST
 ELT ARMED
 CIRCUIT BREAKERS CHECK
 NAV LIGHTS, ACL, AVIONICS MASTER, FUEL PUMP OFF
 MASTER SWITCH (BATTERY) ON
 GENERATOR WARNING LIGHT ILLUMINATED
 LOW VOLTAGE CAUTION LIGHT ILLUMINATED
 FUEL PRESSURE WARNING LIGHT ILLUMINATED
 ACL/STROBE ON

ENGINE START

ELECTRIC FUEL PUMP ON
 FUEL PRESSURE WARNING LIGHT OFF
 THROTTLE COLD START IDLE
 WARM ENGINE 2 CM FORWARD
 CHOKE COLD START ON, FULLY PULLED
 WARM ENGINE OFF
 IGNITION KEY START
 THROTTLE MAX 1500 RPM
 OIL PRESSURE WITHIN GREEN RANGE AFTER MAX 10 SECONDS
 GENERATOR WARNING LIGHT OFF
 LOW VOLTAGE CAUTION LIGHT OFF
 ELECTRIC FUEL PUMP OFF
 CHOKE OFF
 WARM-UP: OIL TEMPERATURE MIN 50 C, 1000-1400 RPM

BEFORE TAXI

ELECTRIC CONSUMERS ON AS REQUIRED
 POWERPLANT INSTRUMENTS CHECK
 WING FLAPS CHECK FULL TRAVEL
 AVIONICS MASTER ON
 ALTIMETER SET
 GYRO SET
 TRANSPONDER SET
 AVIONICS SET

TAXIING

PARKING BRAKE RELEASE
 BRAKES CHECK
 DIRECTION CONTROL CHECK
 FLIGHT INSTRUMENTS AND AVIONICS CHECK

BEFORE TAKE-OFF

PARKING BRAKE SET
 SEAT BELTS AND HARNESSSES FASTENED
 CANOPY CLOSED AND LATCHED
 FUEL SHUT-OFF VALVE CHECK OPEN
 CHOKE CHECK OFF
 POWERPLANT INSTRUMENTS WITHIN GREEN RANGE
 FUEL QUANTITY INDICATOR CHECK
 WING FLAPS T/O
 FLIGHT CONTROLS FREE MOVEMENT, CORRECT SENSE
 TRIM NEUTRAL
 THROTTLE 1700 RPM
 PROPELLER SPEED CONTROL LEVER CYCLE 3 TIMES
 RPM DROP: 100-200 RPM
 IGNITION SWITCH L-BOTH-R-BOTH
 MAX DROP 150 RPM / MAX DIFFERENCE 50 RPM
 CARBURETOR HEAT ON-OFF (DROP 30 RPM)
 AMMETER CHECK
 THROTTLE FULL FOR 5 SECONDS (RPM 2300 ±80), THEN IDLE
 CIRCUIT BREAKERS CHECK
 TAKE-OFF BRIEFING PERFORMED

LINE-UP

TRANSPONDER ALT
 ELECTRIC FUEL PUMP ON
 PARKING BRAKE RELEASE

TAKEOFF

THROTTLE FULL FORWARD
 PROPELLER CONTROL LEVER MAX RPM (2300 ±80)

CLIMB / AT SAFE ALTITUDE

PROPELLER CONTROL LEVER 2260 RPM
 ELECTRIC FUEL PUMP OFF
 POWERPLANT INSTRUMENTS WITHIN GREEN RANGE
 AIRSPEED 70 KTS
 FLAPS UP

CRUISE

THROTTLE AS REQUIRED
 PROPELLER SPEED CONTROL LEVER 1700-2260 RPM
 TRIM AS REQUIRED

DESCENT

THROTTLE AS REQUIRED
 PROPELLER SPEED CONTROL LEVER 1700-2260 RPM
 CARBURETOR HEAT AS REQUIRED

APPROACH

ELECTRIC FUEL PUMP ON
 CARBURETOR HEAT ON
 THROTTLE AS REQUIRED
 TRIM AS REQUIRED
 AIRSPEED MAX 81 KTS
 FLAPS T/O
ON FINAL
 WING FLAPS LDG
 PROPELLER SPEED CONTROL LEVER MAX RPM
 APPROACH SPEED (MINIMUM) 60 KTS

AFTER LANDING

THROTTLE IDLE
 CARBURETOR HEAT OFF
 ELECTRIC FUEL PUMP OFF
 FLAPS UP
 TRANSPONDER GND/STANDBY

ENGINE SHUTDOWN

THROTTLE IDLE
 PARKING BRAKE SET
 ELT CHECK 121,500
 AVIONICS MASTER SWITCH OFF
 IGNITION SWITCH OFF
 NAV LIGHTS, ACL/STROBE OFF
 MASTER SWITCH (BATTERY) OFF

OH-IHQ SPEEDS

ROTATE 51 KIAS
 Vy 65 KIAS (T/O), 70 KIAS (FLAPS UP)
 Vx 58 KIAS
 APPROACH (LDG) 60 KIAS (MINIMUM)
 MAX FLAP SPEED 81 KIAS
 MANEUVERING 104 KIAS
 MAX TURBULENT AIR 117 KIAS

55%	2000ft	4000ft	6000ft
RPM	1900	1900	2000
Throttle MP	24	23,3	22
L/h	14,4	15,6	16,8

65%	2000ft	4000ft	6000ft
RPM	2000	2100	2200
Throttle MP	24,7	23,3	22,7
L/h	16	16,8	19,6