NORMAL CHECKLISTS C-172
PH-DON

VFR DAY AND NIGHT ONLY

Note: Checks in blue are to be performed by memory!

BEFORE STARTING ENGINE

Gust Lock & Pitot Cover	REMOVED & STOWED
Walk-around and visual inspection	COMPLETED
Aircraft Documents	ON BOARD
Seats & Seatbelts	ADJUSTED & SECURED
Doors & Windows	CLOSED & LOCKED
Parking brake	SET
Fuel Selector	BOTH
All electrical switches	OFF
Avionics Master Switch	OFF
Circuit breakers	IN
Master switch	ON
Fuel quantity	CHECKED
HOBBS & VUT	NOTED

STARTING ENGINE

Mixture	RICH
Carburetor heat	OFF
Prime	AS REQUIRED & LOCKED
Throttle	1 CM
Beacon light	ON
Propeller	CLEAR
Ignition switch	START

AFTER STARTING ENGINE

Throttle	1000 RPM
Oil pressure	CHECK
Starter warning light	OFF
Ammeter	CHARGING (+)
Flaps	UP
Avionics Master Switch	ON
Radio equipment	ON & SET
Flight instruments	SET & CHECKED
Parking brake	RELEASE

DURING TAXIING

Brakes	CHECK
Gyros	CHECK

ENGINE RUNUP

Throttle	1000 RPM
Parking brake	SET
Check behind	CLEAR
Throttle	1700 RPM
Engine instruments	CHECK
Carburetor heat	(check rpm drop) ON/WARM
Carburetor heat	OFF
Magnetos	(drop 125 rpm, diff. 50) R / BOTH / L / BOTH
Ammeter	CHARGING (+)
Throttle Idle	±700 RPM
Throttle	1000 RPM
Throttle friction	SET

BEFORE TAKE-OFF

Flight controls	CHECKED
Rudder & Elevator Trim	SET FOR TAKE OFF
Flaps	(Grass, 10°) SET FOR TAKE OFF
Transponder	ALT/7000
Landing Light	ON
Strobe Light	ON
Pitot heat	AS REQUIRED
Crew/pax Briefing	COMPLETED
Parking brake	RELEASE

AFTER TAKE-OFF (Above 200ft AAL)

Flaps	UP
Landing Light	OFF

BEFORE DESCENT / JOINING THE CIRCUIT

Altimeter	SET QNH
Landing lights	ON
Mixture	RICH
Seat belts	FASTENED

DOWNWIND (70 - 80 kts)

Magnetos	BOTH
Landing Light	ON
Carburetor heat	ON/WARM
Mixture	RICH
Flaps	(<110 kts) 10°
Engine instruments	CHECK
Fuel selector/Quantity	BOTH/CHECKED
Brakes	CHECKED

BASE LEG (70 kts)

Flaps	20°

FINAL (70 - 60 kts)

Flaps	AS REQUIRED

BALKED LANDING

Throttle	FULL
Carburetor heat	OFF
Flaps	20°
Speed	MIN 55 kts

AFTER LANDING

Flaps	UP
Carburetor heat	OFF
Landing light	OFF
Strobe lights	OFF
Transponder	STBY
Pitot heat	OFF

AFTER PARKING

Throttle	1000 RPM
Parking Brake	SET
Radios & Transponder	OFF
Avionics Master Switch	OFF
All electrical switches	(Except Beacon Light) OFF
Mixture	IDLE CUT OFF
Beacon light	OFF
Ignition	OFF AND KEY REMOVED
Master Switch	OFF
HOBBS & VUT	NOTED
Emergency Locator Transmitter	NOT TRIGGERED
Gust lock & Pitot cover	INSTALL

AEROCLUB HILVERSUM-AMSTERDAM

NL-ATO-227

ABNORMAL CHECKLISTS C-172
PH-DON

VFR DAY AND NIGHT ONLY

Note: Checks in red are to be performed by memory!

ENGINE FAILURES:

ENGINE FAILURE DURING TAKEOFF RUN

Throttle ..... IDLE
Brakes ..... APPLY
Flaps ..... RETRACT
Mixture ..... IDLE CUT OFF
Ignition Switch ..... OFF
Master Switch ..... OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed ..... (flaps down) 60 kts
..... (flaps up) 65 kts
Mixture ..... IDLE CUT OFF
Fuel Selector Switch ..... OFF
Ignition Switch ..... OFF
Flaps ..... AS REQUIRED
Master Switch ..... OFF
Forced Landing ..... **EXECUTE**
(As described in Emergency Landing Without Engine Power in the POH and ACHA Procedures)

ENGINE FAILURE DURING FLIGHT

Airspeed ..... 65 kts
Carburetor Heat ..... ON/WARM
Fuel Selector Valve ..... BOTH
Mixture ..... RICH
Ignition Switch ..... (START if propeller is stopped) BOTH
Primer ..... IN and LOCKED
(If engine fails to start)
Forced Landing ..... **EXECUTE**
(As described in Emergency Landing Without Engine Power in the POH and ACHA Procedures)

ENGINE FIRES:

FIRES DURING START ON GROUND

Cranking ..... CONTINUE
IF ENGINE STARTS:
Power ..... 1700 RPM for a few minutes
Engine ..... SHUTDOWN
IF ENGINE FAILS TO START:
Throttle ..... FULL OPEN
Mixture ..... IDLE CUT-OFF
Cranking ..... CONTINUE
Engine ..... SECURE
Master Switch ..... OFF
Ignition Switch ..... OFF
Fuel Selector Switch ..... OFF

ENGINE FIRE IN FLIGHT

Mixture ..... IDLE CUT-OFF
Fuel Selector Valve ..... OFF
Master Switch ..... OFF
Cabin Heat and Air ..... (except overhead vents) OFF
Airspeed ..... 100 kts
(if fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture)
Forced Landing ..... **EXECUTE**
(As described in Emergency Landing Without Engine Power in the POH and ACHA Procedures)

ELECTRICAL FIRE IN FLIGHT

Master Switch ..... OFF
Avionics Power Switch ..... OFF
All Other Switches ..... OFF
Vents/Cabin Air/Heat ..... CLOSED
Master Switch ..... ON
Circuit Breakers ..... CHECK
for faulty circuit, do not reset
Radio Switches ..... OFF
Avionics Power Switch ..... ON
Radio/Electrical Switches ..... ON
one at a time, with delay after each until short circuit is localized
Vents/Cabin Air/Heat ..... OPEN
when it is ascertained that fire is completely extinguished

CABIN FIRE

Master Switch ..... OFF
Vents/Cabin Air/Heat ..... CLOSED
Land ..... **AS SOON AS POSSIBLE**

ELECTRICAL FAILURES:

ELECTRICAL POWER SUPPLY SYSTEM MALFUNCTIONS
AMMETER SHOWS EXCESSIVE RATE OF CHARGE (Full Scale Deflection)

Alternator ..... OFF
Alternator Circuit Breaker ..... PULL
Non-essential Electrical Equipment ..... OFF
Land ..... **AS SOON AS POSSIBLE**

LOW VOLTAGE LIGHT ILLUMINATES DURING FLIGHT (Ammeter indicates Discharge)

(Illumination of the low-voltage light may occur during low RPM conditions with an electrical load on the system such as during a low RPM taxi. Under these conditions, the light will go out at higher RPM. The master switch need not be recycled since an over-voltage condition has not occurred to deactivate the alternator system)
Avionics Power Switch ..... OFF
Alternator Circuit Breaker ..... CHECK IN
Master Switch ..... (both sides) OFF
Master Switch ..... ON
Low Voltage Light ..... CHECK OFF
Avionics Power Switch ..... ON

IF LOW VOLTAGE LIGHT ILLUMINATES AGAIN:

Alternator ..... OFF
Non-essential Radio and Electrical Equipment ..... OFF
Land ..... **AS SOON AS PRACTICAL**

NOTE:

This checklist is a Recommended Operator Checklist and for reference only. It is not a substitute for and does not supersede the current approved Airplane Flight Manual.
For a comprehensive listing see the Airplane Flight Manual.