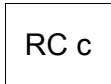


Factual Report – Attachment 21
Airbus AS-350 VEMD Checklist

OPERATIONAL FACTORS

ERA18MA099



The paragraph 1 - **CRUISE FLIGHT**, is modified as follows:

1 CRUISE FLIGHT

AUTOROTATION PROCEDURE OVER LAND

- 1. **Collective pitch** **REDUCE** to maintain NR in normal operating range.
- 2. **IAS**..... **SET to 65 Kt (120 km/h)**.
- If relighting impossible or after loss of tail rotor thrust:
- 3. **FFCL**..... **OFF detent**
 Time, height and circumstances permitting:
 - Fuel shutoff cock **OFF**
 - [FUEL P] (both) **OFF**
 - [EMER SW] **OFF**
- 4. Maneuver the aircraft into the wind on final approach.
- At height \cong 70 ft (21 m):
- 5. Cyclic stick **FLARE**.
- At 20/25 ft (6/8 m) and at constant attitude
- 6. Collective pitch..... **GRADUALLY INCREASE** to reduce the rate of descent and forward speed.
- 7. Cyclic **FORWARD** to adopt a slightly nose-up landing attitude ($< 10^\circ$).
- 8. Pedals..... **ADJUST** to cancel any sideslip tendency.
- 9. Collective pitch..... **INCREASE** to cushion touch-down.
- After touch-down
- 10. Cyclic, collective, pedals **ADJUST** to control ground run.
- Once the aircraft has stopped
- 11. Collective pitch..... **FULL LOW PITCH**.
- 12. Rotor brake **APPLY** below 170 rpm.

CAUTION

THIS PAGE MUST NOT BE REMOVED FROM THE MANUAL UNTIL EMBODIMENT OF MODIFICATION 07.4280.

SECTION 3.2

ENGINE FLAME-OUT

1 CRUISE FLIGHT

AUTOROTATION PROCEDURE OVER LAND

- 1. **Collective pitch** **REDUCE.**
to maintain NR in normal operating range.
- 2. **IAS**..... **SET to 65 Kt (120 km/h).**
- If relighting impossible or after loss of tail rotor thrust:
 - 3. **FFCL**..... **OFF detent.**
Time, height and circumstances permitting:
 - Fuel shutoff cock **OFF.**
 - **[FUEL PUMP]** (both) **OFF.**
 - **[BATT]**..... **EMER SHED.**
 - 4. Maneuver the aircraft into the wind on final approach.
- At height \cong 70 ft (21 m):
 - 5. Cyclic stick **FLARE.**
- At 20/25 ft (6/8 m) and at constant attitude
 - 6. Collective pitch..... **GRADUALLY INCREASE**
to reduce the rate of descent and forward speed.
 - 7. Cyclic **FORWARD** to adopt a slightly nose-up landing attitude ($< 10^\circ$).
 - 8. Pedals..... **ADJUST**
to cancel any sideslip tendency.
 - 9. Collective pitch..... **INCREASE**
to cushion touch-down.
- After touch-down
 - 10. Cyclic, collective, pedals..... **ADJUST** to control ground run.
- Once the aircraft has stopped
 - 11. Collective pitch..... **FULL LOW PITCH.**
 - 12. Rotor brake **APPLY** below 170 rpm.

AUTOROTATION PROCEDURE OVER WATER

Apply same procedure as over land, except items 10, 11 and 12, but maneuver to head the aircraft equally between the wind and wave direction on final approach. Ditch with minimum forward speed (IAS < 30 kt (56 km/h)) and rate of descent. Then apply following check list for items 10, 11, 12.

- After touch-down
 - 10. Collective pitch..... MAINTAIN.
 - 11. Doors jettison handles PULL-UP.
 - 12. Rotor brake APPLY.

Abandon aircraft once the rotor has stopped.

2 HOVER IGE

- 1. Collective MAINTAIN.
- 2. Pedals CONTROL YAW.
- 3. Collective INCREASE as needed to cushion touch-down.

3 HOVER OGE

WARNING

SAFE AUTOROTATIVE LANDING CANNOT BE ENSURED IN CASE OF A FAILURE IN HOGE BELOW THE TOP POINT OF THE HV DIAGRAM (REFER TO SECTION 5.1) OR IN CONFINED AREA.

- 1. Collective pitch FULL LOW PITCH.
- When NR stops decreasing
 - 2. Cyclic FORWARD
to gain airspeed according to available height.
 - 3. Autorotation procedure APPLY.

RC c

The paragraph 4 - **IN FLIGHT RELIGHTING** is superseded by the following:

4 IN FLIGHT RELIGHTING

According to available height and cause of flame-out:

- 1. [FUEL P] (both)**ON.**
- 2. Ng**WAIT** Ng < 30% before carrying out a normal engine starting.

At least 1000 ft are necessary to complete relighting procedure after flame-out.

CAUTION

THIS PAGE MUST NOT BE REMOVED FROM THE MANUAL UNTIL EMBODIMENT OF MODIFICATION 07.4280.

4 IN FLIGHT RELIGHTING

According to available height and cause of flame-out:

1. [FUEL PUMP] (both)**ON.**
2. Ng**WAIT** Ng < 30% before carrying out a normal engine starting.

At least 1000 ft are necessary to complete relighting procedure after flame-out.

SECTION 4.2

PREFLIGHT CHECK

- Make sure that all flightworthiness-required corrective maintenance operations have been performed.
- These preflight checks can be done without opening any cowlings unless the helicopter had been parked for more than 2 days or in case of any visible leak or doubt.
- Check that the aircraft area is clean and unobstructed.
- Remove all picketing items if applicable
- Carry out the following checks:

1 EXTERIOR CHECK

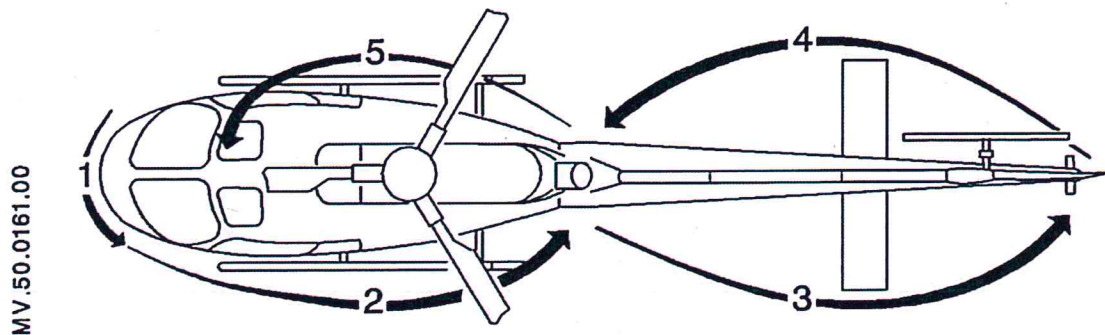


Figure 1: Sequence of checks

Station 1

- Transparent panelsCondition - Cleanliness.
- Windshield wiper (if installed).....Condition.
- MGB – Engine oil cooler air inletCheck no obstruction or foreign objects.
- Side slip indicatorCondition.
- Pitot tubeCover removed - Condition.
- Landing lightsCondition.

Station 2

WARNING

ICE OR SNOW ACCUMULATIONS THAT REMAIN IN OR AROUND THE ENGINE AIR INTAKE MAY BE INGESTED AND CAN CAUSE A SUDDEN IN-FLIGHT ENGINE FAILURE.

- Front doorCondition, jettison system check.
- Rear doorCondition, closed or open locked (sliding door).
- Left cargo doorOpen.
- Loads and objects carriedSecured.
- Left cargo doorClosed, locked.
- Fuel tank filler capClosed, locked.
- Fuel tankDrained (before the first flight, if OAT $\geq 0^{\circ}\text{C}$), absence of leakage at the drain.
- MGB cowl.....MGB oil level - Cowl locked.
- All lower fairing panelsLocked.
- Landing gear and foot stepAttachment - Visual check.
- Static portsClear, covers removed.
- OAT sensors, antennasCondition.
- Main rotor head and bladesVisual inspection, no impact.
- Engine cowl.....Locked.
- Rear cargo doorOpen.
- Loads and objects carriedSecured.
- ELTCheck ARMED.
- Rear cargo doorClosed, locked.
- Oil drain.....No oil under scupper.

Station 3

- Heat shield on tail rotor drive.....Condition, attachment.
- Tail boom, antennas.....Condition - Fairing fasteners locked.
- Stabilizer, fin, external lights.....General condition.
- Tail rotor guard (if fitted).....Condition, attachment.
- TGB fairingSecured, fasteners locked.
- TGB oil level.....Checked.
- Tail skidCondition, attachment.

Station 4

- Tail rotor headCondition, laminated bearing.
Checked for separation, cracks, etc.
- Tail rotor bladesVisual inspection, no impact.
- Stabilizer, fin, external lights.....General condition.
- Tail boom, antennas.....Condition - Fairing fasteners locked.
- Heat shield on tail rotor drive.....Condition, attachment.

Station 5

- Oil drain.....No oil under scupper.
- EPU doorClosed or EPU connected.
- Engine air intakeClean - No foreign objects or
accumulations of ice or snow in or
around the engine air intake and no
stagnant water at the drain hole.
- Engine cowl.....Locked.
- Exhaust coverRemoved.
- Right cargo door.....Open.
- Loads and objects carriedSecured.
- Right cargo door.....Locked.
- Main rotor head and bladesVisual inspection, no impact.
- MGB cowl.....No foreign objects on transmission deck.
Cowl locked.
- Hydraulic oil levelCheck reservoir level.
- Engine oil levelCheck reservoir level.
- Landing gear and foot stepAttachment – Visual check.
- All lower fairing panelsLocked.
- DoorCondition, jettison system check.
- External mirror (if fitted).....Set to avoid dazzling (night flight).

2 INTERIOR CHECK

- Cabin.....Clean.
- Fire extinguisher.....Secured - Checked.
- Fuses or breakersAll set.
- Loads and objects carriedStowed and secured.
- Front door jettison systemsCheck - Plastic guard condition.

3 TURN AROUND CHECK

- Overall aspectCondition, cleanliness.
- Engine / MGB / TGBOil level.
- Main and tail rotor bladesVisual inspection, no impact.
- LoadsSecured.
- All cowlingsLocked.
- DoorsClosed or sliding door open-locked.

NOTE

If the aircraft is to be parked for some time between flights, temporary picketing is recommended by fitting blanks, covers and blade socks (in winds above 40 kt (74 km/h)).

In this case, perform a complete pre-flight check.

SECTION 4.3

START UP

1 ENGINE PRESTART CHECK

- Seats and Control pedals.....ADJUST and LOCK.
- Seat beltsFASTEN.

NOTE

Copilot seat belts shall be fastened in all cases.

1. Rotor brakeRELEASE, fully forward.
2. FFCLOFF detent.
3. Fuel shut-off leverFORWARD check lockwired.
4. Hydraulic pressure switchON.
5. [BATT] [GENE]ON.
6. Instrument lighting systemOFF/ DAY/NIGHT (as required if night flight intended).

**INST
LIGHT**

7. ICSON.
8. [COM1/NAV1]ON.
9. Electrical mirror (if fitted)SET to avoid dazzling (if night flight intended).
10. [ACCU TST]PRESS for 2 sec.
11. [W/LT TST]PERFORM.

12. CWP lightsCHECK:


- With battery power.....:



- With EPU powerSame lights as above +



13. VEMD.....CHECK:

- . 3-data page : no message,
- . Vehicle page : no message,
- . Battery voltage > 22 V,
- .  (Bleed valve open).

14. PedalsCHECK free travel, then neutral.

15. Cyclic pitch.....CENTER, friction adjusted.

16. Collective pitch.....LOCK, friction adjusted.

17. Heating, demisting, air conditioning (if fitted).....OFF.

2 ENGINE STARTING

1. [FUEL P] or [FUEL PUMP]* (both)ON.
2. [A/COL Lt] or [A/COL]*ON.
 - After 30 sec.
3. Starting pushbuttonPRESS.
4. FFCLFORWARD around 1/3 of its travel when Ng reaches 10%.
5. Engine parametersCHECK:
 - . Ng increases,
 - . t4 remains below its limits,
 - . Rotor is turning at $Ng \geq 25\%$,
 - . Engine oil pressure increases.
6. Starting pushbuttonRELEASE at $40\% < Ng < 45\%$.
7. FFCLAdjust to $67\% \leq Ng \leq 70\%$.

NOTE 1

Keep the starting pushbutton pressed throughout the starting sequence.
 Open the fuel flow control as the same time the start pushbutton is pressed when $OAT < 0^{\circ}C$.

NOTE 2

If the starting procedure has to be aborted, return the fuel flow control to OFF position, switch off the fuel pumps and the generator.

NOTE 3

In strong wind apply little cyclic into wind.

NOTE 4

At $Ng > 60\%$ the VEMD upper screen automatically switches to FLI display.

(*) Post MOD 07-4280

8. CWP.....CHECK:

ENG P

MGB P

HYDR

9. [PITOT].....ON:

PITOT

- If EPU is used :

10. EPU.....DISCONNECT, make sure EPU door is closed and locked.

11. CWPCHECK:

GENE

BATT

3 RUN-UP CHECK

1. All necessary systems.....ON – TEST.
(Avionics, lights, etc.)

2. Hydraulic checks

CAUTION

If not locked, the collective pitch lever will come up when the accumulators are depleted or when the hydraulic cut-off switch on the collective is set to OFF.

- Accumulator checks:

- **Collective pitch**CHECK correctly locked.

- [ACCU TST]ON.

- CWPCHECK **HYDR** flashes.

- Collective / cyclic controls.....HANDS ON.

- Move the cyclic control 2 or 3 times on each axes (+/- 10% of travel) and check for accumulator hydraulic assistance on pitch and roll (no control loads). Check that forces are felt on the pedals.

- [ACCU TST].....RESET to OFF position.

- CWPCHECK **HYDR**.

- Hydraulic pressure isolation check:

- Collective pitch.....CHECK correctly locked.
- Hydraulic cutoff switchSET to OFF.
- CWPCHECK **HYDR**.
- Check that loads are immediately felt and that cyclic can be moved in pitch and roll with normal feedback loads. Yaw pedals loads should stay low (yaw load compensator effect).
- Hydraulic cutoff switchSET to ON.
- CWPCHECK **HYDR** in 3 to 4 sec.

Maintenance action must be performed prior to flight if this time is reduced to 1 sec. (at least one of the accumulators is faulty).


- When minimum engine oil temperature is reached (Refer to SECTION 2.4 § 4):

3. FFCL.....FLIGHT detent, maintaining a constant rate of rotor acceleration.

NOTE

Do not allow NR value to remain steady between 300 and 320 rpm during engine acceleration.

- When NR ≥ 340 rpm:

4. [HORN].....ON, **HORN**.
CHECK audio warning:
. ON for NR ≤ 360 rpm and
. OFF for NR > 360 rpm.
5. NR indicationCHECK in lower normal operating range.
6. [FIRE/TST].....PERFORM, check  + gong sounds.
7. Parameters check No warning light illuminated,
. Electrical system voltage and current,
. Engine oil pressure.

4 CRANKING

The cranking procedure can be performed after an aborted start or for check or maintenance purposes.

Proceed as follows:

- **Check:**

1. FFCL OFF.
2. Emergency fuel shut-off lever FORWARD.
3. Ng CHECK \leq 10 %.
4. [FUEL PUMP] (both)..... ON.
5. [CRANK] PRESS IN for
15 sec. max.
6. [CRANK] RELEASE.
7. [FUEL PUMP] (both)..... OFF.

SECTION 4.4

TAKEOFF

1 BEFORE TAKEOFF CHECK

1. DoorsCLOSED or sliding doors
OPEN LOCKED.
2. Cyclic and collective frictionsAS REQUIRED.
3. Landing light.....AS REQUIRED.
4. Temperatures and pressuresNORMAL RANGE.
5. CWP.....All lights OFF.
6. Collective pitch.....UNLOCK.

NOTE

Adjust collective and cyclic frictions so that friction loads are felt by the pilot when moving the flight controls.

2 TAKEOFF CHECK AND PROCEDURE

- Gradually increase collective pitch to hover at 5 ft (1.5 m). Check engine and mechanical parameters, no warning light.
- Increase airspeed with HIGE power until IAS = 40 kt (74 km/h), then begin to climb so as to clear 40 ft (12 m) at IAS = 50 kt (93 km/h).

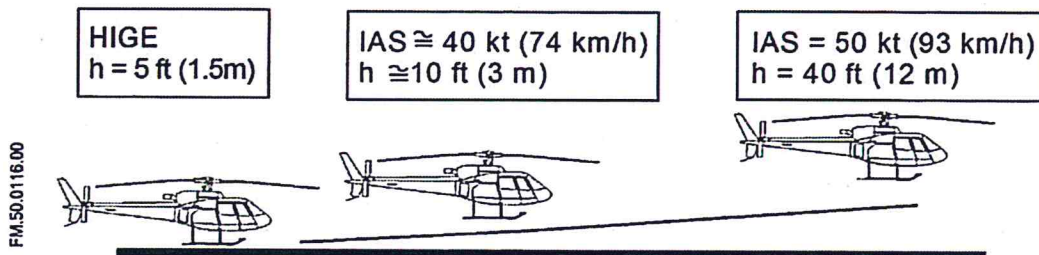


Figure 1: Takeoff procedure

CAUTION

For safe operation, takeoff path should avoid HV diagram (refer to section 5).

SECTION 4.5

CLIMB - CRUISE - APPROACH - LANDING

1 CLIMB

Above 100 ft (30 m), for maximum climb performance, select Maximum Continuous Power and optimum climbing speed (V_y):

IAS kt = 55 kt at 0 Hp - (1 kt / 1000 ft).

IAS km/h = 102 km/h at 0 Hp - (2 km/h per 300 m).

2 CRUISE

Fast cruise is obtained by the first limitation reached corresponding to the beginning of the FLI amber area:

Corresponding mechanical or engine limits (T_q , N_g , t_4) are indicated by an underlined numerical value.

Economic cruise: refer to SECTION 5.2 "Additional performance data" (Not approved).

Reduce indicated airspeed in turbulence.

3 APPROACH

- Begin approach at 65 kt (120 km/h).
- At approximately 100 ft (30 m), reduce airspeed down to HIGE at 5 ft (1.5 m).

- Approach check:

1. Landing lightAS REQUIRED.
2. All parameters.....CHECK.

4 LANDING

- In hover, gradually reduce collective pitch until touchdown, then fully reduce collective pitch.

SECTION 4.6

ENGINE AND ROTOR SHUTDOWN


1 ENGINE AND ROTOR SHUTDOWN

1. Cyclic stickNEUTRAL.
 2. Collective pitch.....LOCK.
 3. FFCL.....Set to $67\% \leq Ng \leq 70\%$.
 4. Engine cool down.....WAIT for 30 sec.
 5. [PITOT], [HORN], landing light.....OFF.
 6. FFCL.....OFF detent.
 7. [FUEL PUMP] (both)OFF.
 8. [GENE]OFF.
- At NR ≤ 140 rpm normal NR
 ≤ 170 rpm maximum NR (in strong wind operations).
9. Rotor brakeAPPLY.
- When rotor is stopped:
10. [ACCU TST]PRESS for 2 sec.,
re-centralize pedals if necessary.
 11. [A/COL]OFF.
- **BEFORE LEAVING HELICOPTER**
12. VEMD.....CHECK for Flight Report page data:
 - Operating time (counted from Ng > 60 % after start, to Ng < 50 %),
 - Ng and Nf cycles: check written in white characters and above 0.
 - Advisory messages: **FAILURE DETECTED** or **OVERLIMIT DETECTED**.
 13. [BATT]OFF.
 14. Pitot, static ports, air intake and exhaust covers, blade socks as required.

SECTION 3.7

CAUTION AND WARNING PANEL


1 ENGINE ALARMS

WARNING PANEL	CORRECTIVE ACTIONS
<div style="text-align: center;">  <p>Fire in engine bay.</p> </div>	<p>- At Start-up:</p> <ol style="list-style-type: none"> 1. Emergency fuel shut-off handle..... AFT. 2. FFCL..... OFF position. 3. [FUEL PUMP] (both)..... OFF. 4. [CRANK]..... PRESS (10 sec.). 5. [BATT] OFF. 6. Rotor brake APPLY (\leq 170 rpm). 7. Evacuate aircraft and fight fire from outside. <p>- Hover, Takeoff, Final:</p> <p style="text-align: center;">LAND IMMEDIATELY</p> <p>Carry out a no hover powered landing. Once on ground, apply same procedure as above.</p> <p>- In Flight:</p> <p style="text-align: center;">LAND IMMEDIATELY</p> <ol style="list-style-type: none"> 1. Collective pitch REDUCE. 2. IAS SET to Vy. 3. Autorotation procedure APPLY. 4. Emergency fuel shut-off handle AFT. 5. [FUEL PUMP] (both)..... OFF. 6. FFCL..... OFF position. <p>- After Landing:</p> <ol style="list-style-type: none"> 7. [BATT] OFF. 8. Rotor brake APPLY (\leq 170 rpm). 9. Evacuate aircraft and fight fire from outside.

2 TRANSMISSION ALARMS

WARNING PANEL	CORRECTIVE ACTIONS
<p>MGB P</p> <p>Main Gear Box low oil pressure < 1 bar (14.5 psi)</p>	<p>Collective.....REDUCE power</p> <p>LAND AS SOON AS POSSIBLE</p> <p>If a safe landing is not possible, continue flight to the nearest appropriate landing site, reduce power to fly at minimum power speed (Vy).</p> <p>NOTE</p> <p>At low power (Vy) a maximum of 55 min. of simulated flight time has been demonstrated during bench tests</p>
<p>MGB TEMP</p> <p>Main Gear Box oil overheating (> 115°C)</p>	<p>IAS.....SET TO Vy CWPMONITOR</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>MGB TEMP</p> <p>↓</p> <p>LAND AS SOON AS PRACTICABLE</p> </div> <div style="text-align: center;"> <p>MGB TEMP</p> <p>↓</p> <p>LAND AS SOON AS POSSIBLE</p> </div> </div>
<p>MGB CHIP</p> <p>Metal particles in MGB oil circuit</p>	<p>Collective.....REDUCE power</p> <p>MGB P and MGB TEMPMONITOR</p> <p>LAND AS SOON AS POSSIBLE</p>
<p>TGB CHIP</p> <p>Metal particles in TGB oil circuit</p>	<p>Avoid prolonged hovering</p> <p>CONTINUE FLIGHT</p>

3 HYDRAULIC ALARMS

WARNING PANEL	CORRECTIVE ACTIONS
<div style="text-align: center; margin-bottom: 10px;">  </div> <p>Hydraulic pressure < 30 bar.</p>	<p>Keep aircraft at a more or less level attitude. Avoid abrupt maneuvers.</p> <p style="text-align: center;">CAUTION</p> <p>Do not use [ACCU TST] pushbutton as this will depressurize the yaw load compensator resulting in heavy pedals control loads.</p> <p>Do not attempt to carry out hover flight or any low speed maneuver.</p> <p>The intensity and direction of the control feedback force will change rapidly. This will result in poor aircraft control and possible loss of control.</p> <p style="text-align: center;">NOTE</p> <p>Pressure in accumulators allows enough time to secure the flight and to establish the hydraulic failure safety speed.</p> <p>- <u>In hover:</u></p> <ol style="list-style-type: none"> 1. Land normally 2. Collective pitch..... LOCK. 3. FFCL..... Set to $67\% \leq N_g \leq 70\%$. 4. Shut down procedure..... APPLY. <p>- <u>In flight:</u> Smoothly,</p> <ol style="list-style-type: none"> 1. Collective pitch/ Cyclic stick..... SET IAS within 40 to 60 kt (74 to 111 Km/h). (hydraulic failure safety speed). 2. Collective HYD switch..... OFF. Pilot has to exert forces: <ul style="list-style-type: none"> - on collective increase or decrease around no force feedback point, - on forward and left cyclic. <p style="text-align: center;">LAND AS SOON AS POSSIBLE</p> <p style="text-align: center;">NOTE</p> <p>Speed may be increased as necessary but control loads will increase with speed.</p>

WARNING PANEL	CORRECTIVE ACTIONS
<p>HYDR</p> <p>(Cont'd)</p> <p>Hydraulic pressure < 30 bar.</p>	<ul style="list-style-type: none"> - <u>Approach and landing:</u> over a clear and flat area, <ul style="list-style-type: none"> • Perform a flat approach into wind, • Make a no-hover slow running landing around 10 kt (19 km/h), • Do not hover or taxi without hydraulic pressure. - <u>After landing:</u> <ul style="list-style-type: none"> • Collective pitch LOCK. • FFCL Set to $67\% \leq Ng \leq 70\%$. • Shutdown procedure Apply.

4 ELECTRICAL ALARMS

WARNING PANEL	CORRECTIVE ACTIONS
<p>BATT TEMP</p> <p>Battery temperature above maximum.</p>	<p>1.[BATT]OFF. 2.U bus voltageCHECK.</p> <p>NORMAL</p> <p>ABOVE U max</p> <p>1. [BATT]ON. 2. [GENE]OFF. 3. Unnecessary equipmentOFF.</p> <p>LAND AS SOON AS PRACTICABLE</p>
<p>BATT</p> <p>Battery off line.</p>	<p>[BATT]CHECK ON.</p> <p>YES</p> <p>Ubus voltage CHECK.</p> <p>LAND AS SOON AS PRACTICABLE</p> <p>NO</p> <p>[BATT]ON.</p> <p>BATT</p> <p>CONTINUE FLIGHT</p>
<p>INV *</p> <p>AC power supply failure</p>	<p><u>Inverter* AC system:</u></p> <p>[INV]CHECK ON</p> <p>YES</p> <p>Loss of all AC consumers</p> <p>NOTE</p> <p>AFCS* disengages automatically, ControlsHANDS ON.</p> <p>CONTINUE FLIGHT</p> <p>NO</p> <p>[INV]ON</p> <p>INV</p> <p>CONTINUE FLIGHT</p>

(*) If installed

WARNING PANEL	CORRECTIVE ACTIONS
<p>GENE</p> <p>DC generator off line.</p>	<p>1. U bus voltageCHECK.</p> <p>2. [GENE].....CHECK ON.</p> <p>YES → "GENE RESET" Circuit breaker.....Check not popped out (30α panel). [GENE]RST, [GENE]ON,</p> <p>NO → [GENE]..... ON.</p> <p>Case A: GENE → Unnecessary equipment OFF. U bus on VEMD MONITOR. LAND AS SOON AS PRACTICABLE</p> <p>Case B: GENE → CONTINUE FLIGHT</p> <p>WARNING</p> <p>IF THE BATTERY FAILS, THE VEMD WILL GO OUT AND NR/NF INDICATION IS LOST. APPLY THE PROCEDURE FOR FAILURE OF BOTH SCREENS (SECTION 3.5 § 1 VEMD SCREEN FAILURES). AVOID AUTOROTATION, PERFORM A SHALLOW APPROACH WITH A CAUTIOUS LANDING.</p>

5 FUEL ALARMS

WARNING PANEL	CORRECTIVE ACTIONS
<p>FUEL</p> <p>Fuel quantity < 48 kg (106 lb)</p>	<p>LAND AS SOON AS POSSIBLE</p> <p>NOTE 18 min. of flight time remains at MCP</p> <p>WARNING</p> <p>AVOID LARGE ATTITUDE CHANGES AS THIS COULD LEAD TO AN ENGINE FLAME-OUT</p>
<p>FUEL P</p> <p>Low fuel pressure (< 0.2 bar) on either or both pumps.</p>	<p>1. [FUEL PUMP] (both)CHECK ON</p> <pre> graph TD A[1. [FUEL PUMP] (both)CHECK ON] --> B{YES/NO} B -- YES --> C[2. Fuel pressure..... CHECK.] B -- NO --> D["[FUEL PUMP] (both) ON."] C --> E{Zero/Normal} E -- Zero --> F[Both pumps faulty.] E -- Normal --> G[One pump faulty.] D --> H["FUEL P"] F --> I["CONTINUE FLIGHT at Hp < 5000 ft (1524 m)."] G --> J["CONTINUE FLIGHT"] H --> J </pre>

WARNING PANEL	CORRECTIVE ACTIONS
<p data-bbox="326 365 469 464">FUEL FILT</p> <p data-bbox="326 485 477 548">Fuel filter pre-clogged</p>	<p data-bbox="899 348 1040 375" style="text-align: center;">WARNING</p> <p data-bbox="540 411 1365 537">FUEL FILTER BY-PASS OPENING LEADS TO CONTAMINATION OF THE FUEL LINES AND THE GOVERNOR, WHICH MAY INDUCE Ng OSCILLATIONS, LIMITED POWER OR POSSIBLY FLAME-OUT.</p> <p data-bbox="540 590 1321 617">Collective pitchREDUCE POWER.</p> <div data-bbox="540 632 1349 1094"><pre>graph TD; A[REDUCE POWER.] --> B[FUEL FILT]; A --> C[FUEL FILT]; B --> D[Establish flight at reduced power.]; D --> E[LAND AS SOON AS PRACTICABLE]; C --> F[LAND AS SOON AS POSSIBLE];</pre></div> <p data-bbox="540 1157 1256 1184">VEMDMONITOR Ng</p> <p data-bbox="805 1205 1101 1232" style="text-align: center;">If Ng oscillations occur:</p> <p data-bbox="784 1316 1117 1344" style="text-align: center;">LAND IMMEDIATELY</p> <p data-bbox="540 1430 1175 1457">Autorotation procedureAPPLY.</p>

6 MISCELLANEOUS ALARMS

WARNING PANEL	CORRECTIVE ACTIONS
<p>PITOT</p> <p>Pitot heating not operative</p>	<p>[PITOT].....CHECK ON</p> <p>YES → Monitor airspeed indicator</p> <p>NO → [PITOT]..... ON</p> <p>CONTINUE FLIGHT</p>
<p>HORN</p> <p>Aural warning not operative</p>	<p>[HORN].....CHECK ON</p> <p>YES → Aural warning failure</p> <p>NO → [HORN]..... ON</p> <p>CONTINUE FLIGHT</p>
<p>DOOR</p> <p>One or both cargo hold doors unlocked</p>	<p>AirspeedREDUCE to 70 kt (130 km/h)</p> <p>LAND AS SOON AS PRACTICABLE</p> <p>Descent and approach at low rate of descent.</p>
<p>INST LIGHT</p> <p>One or both instrument lighting circuits not operative</p>	<p>CONTINUE FLIGHT</p> <p>NOTE</p> <p>The forward reading lights can be used as additional instrument panel lighting.</p>