

T-6B Emergency Procedures: Warnings, Cautions, and Notes

How to use:

“Read the text a few times. Then, use the lined text and make an attempt—use the text underneath to assist if you draw a blank. Get to the point where you’re not referring to the complete text at all. When you have a good flow going with the lined text, give it a shot from memory, referring to the lined text when needed. You’ll get it memorized in no time.”

ABORT START PROCEDURE

2 Notes

NOTE

N__a__r__t__m__t__d__a__d__o__a__o__.

Note and report to maintenance the degree and duration of any overtemperature.

* 1. PCL - OFF; or STARTER switch - AUTO/RESET

NOTE

I__s__i__i__w__P__i__t__O__p__, a__b__r__A__/R__
o__t__S__s__. I__s__i__i__w__P__o__o__t__O__p__, b__
n__p__t__l__g__, a__b__p__t__P__t__O__o__r__A__/R__
o__t__S__s__. I__t__P__i__p__t__l__g__, a__b__p__t__P__t__
O__.

If start is initiated with PCL in the OFF position, abort by reselecting AUTO/RESET on the STARTER switch. If start is initiated with PCL out of the OFF position, but not past the IDLE gate, abort by placing the PCL to OFF or reselecting AUTO/RESET on the STARTER switch. If the PCL is past the IDLE gate, abort by placing the PCL to OFF.

EMERGENCY ENGINE SHUTDOWN ON THE GROUND

- * 1. PCL – OFF
- * 2. FIREWALL SHUTOFF HANDLE – PULL
- * 3. Emergency ground egress - As required

EMERGENCY GROUND EGRESS 5 Warnings 2 Notes

NOTE

I_ a s_ r_ i_ g_ e_, t_ e_ s_ h_ t_
c_ f_ /_ e_.

In a situation requiring immediate ground egress, the ejection system has the capability for 0/0 ejection.

- * 1. ISS mode selector – SOLO

WARNING

F_ t_ e_ t_ t_ l_ m_ s_ i_ s_ t_ S_ m_ r_ i_ t_
i_ e_ o_ o_ o_ b_ s_.

Failure to ensure that the ISS mode selector is set to SOLO may result in the inadvertent ejection of one or both seats.

- * 2. Seat safety pin - Install (BOTH)

WARNING

F_ t_ i_ b_ e_ s_ s_ p_ (i_ o_) b_ g_
e_ m_ r_ i_ i_ a_ o_ e_ s_ a_
s_ i_ o_ d_ w_ p_ e_ g_ e_.

Failure to insert both ejection seat safety pins (if occupied) before ground egress may result in inadvertent activation of ejection sequence and subsequent injury or death when performing emergency ground egress.

* 3. PARKING BRAKE - As required

* 4. Canopy – Open

IF CANOPY CANNOT BE OPENED OR SITUATION REQUIRES RIGHT SIDE EGRESS:

* 5. CFS handle safety pin - Remove (BOTH)

* 6. CFS handle - Rotate 90° counterclockwise and pull (BOTH)

WARNING

If the canopy fracturing system malfunctions in conjunction with a canopy latch failure in the locked position, ejection may be the only option remaining to exit the aircraft. Aircrew shall remove the ejection seat safety pin and ensure shoulder straps, lap straps, and leg restraint garters are still attached prior to pulling ejection handle.

WARNING

To prevent injury, ensure oxygen mask is on and visor is down prior to actuating the CFS system.

WARNING

Each internal CFS handle activates only the CFS charge for the respective transparency. Both internal CFS handles must be activated in order to fracture both transparencies (if required).

*** 7. Upper fittings, lower fittings, and leg restraint garters - Release (BOTH)**

NOTE

Oxygen hose, emergency oxygen hose, communication leads, and anti-G suit hose will pull free while vacating cockpit and leg restraint lines will pull through leg restraint garter D rings if released with quick-release lever.

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*** 8. BAT, GEN, and AUX BAT switches – OFF**

*** 9. Evacuate aircraft**

ABORT (Takeoff)
1 Warning

*** 1. PCL – IDLE**

*** 2. BRAKES - AS REQUIRED**

WARNING

A _____ a s _____ w _____ r _____ m _____ e _____ b _____ a _____ i _____ o _____ b _____ a _____
s _____, d _____ n _____ t _____ i _____ o _____ p _____ i _____ a c _____ a _____ u _____ b _____ h _____ h _____
s _____ t _____ t _____ c _____. D _____ n _____ s _____ p _____ b _____.

After a stop which required maximum effort braking and if overheated brakes are suspected, do not taxi into or park in a congested area until brakes have had sufficient time to cool. Do not set parking brake.

**ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF
(SUFFICIENT RUNWAY REMAINING STRAIGHT AHEAD)
2 Warnings 2 Notes**

WARNING

I _ i _ _ _ _ r _ _ r _ _ _ t _ l _ _ s _ _ _ a _ _ , c _ _ _ i _ _ _
e _ _ _ _ .

If insufficient runway remains to land straight ahead, consider immediate ejection.

WARNING

D _ n _ s _ _ _ _ a _ _ _ c _ _ _ w _ _ t _ _ _ _ _ o _ l _ _ _ g _ _ w _ _
e _ _ _ _ s _ _ _ .

Do not sacrifice aircraft control while troubleshooting or lowering gear with emergency system.

- * 1. AIRSPEED - 110 KNOTS (MINIMUM)
- * 2. PCL - AS REQUIRED

NOTE

T _ p _ _ s _ _ _ s _ _ _ l _ _ t _ u _ t _ i _ _ _ d _ _ o _ t _ n _ y _ f _ _ _
p _ _ _ _ o _ s _ _ _ O _ t _ r _ _ _ t _ s _ _ r _ _ .

The pilot should select IDLE to use the increased drag of the not yet feathered propeller or select OFF to reduce the sink rate.

- * 3. EMER LDG GR HANDLE - PULL (AS REQUIRED)

NOTE

W _ _ a l _ _ o _ h _ _ _ _ p _ _ _ _ , l _ _ _ _ g _ _ a _ f _ _ _ c _ _ _ b _ l _ _ _ b _ _
n _ _ _ m _ _ _ .

With a loss of hydraulic pressure, landing gear and flaps cannot be lowered by normal means.

- * 4. Flaps - As required

ENGINE FAILURE DURING FLIGHT

3 Warnings 3 Notes

NOTE

P_____ w_____ n_____ f_____ u_____ t_____ P_____ i_____ f_____ i_____ O_____.

Propeller will not feather unless the PCL is fully in OFF.

- * 1. ZOOM/GLIDE - 125 KNOTS (MINIMUM)
- * 2. PCL – OFF
- * 3. INTERCEPT ELP

WARNING

I_____ a_____ s_____ l_____ s_____ i_____ a_____, t_____ i_____ t_____ i_____ t_____
n_____ s_____ p_____ o_____ t_____ E_____. A_____ d_____ c_____ r_____ i_____ i_____
g_____ d_____ t_____ r_____ a_____ l_____ s_____.

If a suitable landing surface is available, turn immediately to intercept the nearest suitable point on the ELP. Any delay could result in insufficient gliding distance to reach a landing surface.

WARNING

D_____ n_____ d_____ d_____ t_____ e_____ b_____ 2_____ f_____ A_____.

Do not delay decision to eject below 2000 feet AGL.

- * 4. Airstart - Attempt if warranted

WARNING

A_____ p_____ i_____ n_____ r_____ b_____ 2_____ f_____ A_____, a_____ p_____ a_____
s_____ b_____ t_____ e_____ o_____ s_____ r_____ t_____ a_____.

Airstart procedure is not recommended below 2000 feet AGL, as primary attention should

be to eject or safely recover the aircraft.

NOTE

Crosscheck N1 against other engine indications to assess condition of engine and determine if an airstart is warranted. At 125 KIAS, an engine which has flamed out will rotate below 8% N1 and indicate 0% N1. The engine oil pressure indicator may display oil pressures up to 4 psi with or without the engine seized.

IF CONDITIONS DO NOT WARRANT AN AIRSTART:

- * **5. FIREWALL SHUTOFF handle – Pull**
- * **6. Execute Forced Landing or Eject**

IMMEDIATE AIRSTART (PMU NORM) 4 Warnings 3 Cautions

WARNING

A _____ a _____ o _____ o _____ t _____ a _____ e _____ m _____ b _____ u _____ o _____
r _____ i _____ e _____ o _____. C _____ s _____ b _____ g _____ t _____ e _____
a _____ a _____ a _____ w _____ t _____ a _____ e _____ (1 _____ -2 _____ K _____ f _____ s _____ l _____
t _____ 1 _____, _____ f _____, o _____ 1 _____ - 2 _____ K _____ f _____ 1 _____, _____ t _____ 2 _____, _____ f _____).

Airstart attempts outside of the airstart envelope may be unsuccessful or result in engine overtemperature. Consideration should be given to ensure airstarts are attempted within the airstart envelope (125-200 KIAS for sea level to 15,000 feet, or 135-200 KIAS for 15,001 to 20,000 feet).

* 1. PCL – OFF

WARNING

D _____ n _____ d _____ e _____ w _____ a _____ a _____ a _____ l _____ a _____ i _____ b _____ 2 _____
f _____ A _____.

Do not delay ejection while attempting airstart at low altitude if below 2000 feet AGL.

WARNING

P _____ m _____ b _____ i _____ O _____ t _____ f _____ t _____ p _____, a _____ e _____ p _____ s _____, i _____,
b _____ p _____, a _____ P _____ o _____ d _____ a _____.

PCL must be in OFF to feather the propeller, and ensure proper starter, ignition, boost pump, and PMU operation during airstart.

CAUTION

E _____ P _____ i _____ i _____ O _____; o _____, f _____ m _____ b _____ p _____ i _____ d _____ s _____.

Ensure PCL is in OFF; otherwise, fuel may be prematurely introduced during start.

*2. STARTER SWITCH – AUTO/RESET

CAUTION

If N1 does not rise within 5 seconds, discontinue the airstart attempt and proceed to IF AIRSTART IS UNSUCCESSFUL due to suspected mechanical failure.

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* 3. PCL - IDLE, ABOVE 13% N1

WARNING

Movement of the PCL above IDLE before N1 stabilizes at approximately 67% will cause an increase in fuel flow which may cause engine failure due to a severe ITT overtemperature.

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CAUTION

If there is no rise in ITT within 10 seconds after fuel flow indications, place the PCL to OFF and abort the start.

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* 4. Engine instruments - Monitor ITT, N1, and oil pressure

IF AIRSTART IS UNSUCCESSFUL:

* 5. PCL – OFF

* 6. FIREWALL SHUTOFF handle – Pull

* 7. Execute Forced Landing or Eject

IF AIRSTART IS SUCCESSFUL:

* 8. PCL - As required after N1 reaches IDLE RPM (approximately 67% N1)

* 9. PEL – Execute

UNCOMMANDED POWER CHANGES/LOSS OF POWER/UNCOMMANDED PROPELLER FEATHER

2 Warning 3 Cautions 7 Notes

* 1. PCL - MID RANGE

NOTE

M__ r__ i_ a p__ P__ a__ t__ a__ t__ m__ p__
b__ l__ a__ M__.

Mid range is a physical PCL angle that approximates the midway position between IDLE and MAX.

NOTE

A P__ p__ a__ l__ w__ p__ t__ b__ c__ f__ t__ e__ t__ r__.

A PCL position above IDLE will provide the best chance for the engine to recover.

NOTE

A m__ - r__ P__ p__ w__ m__ t__ p__ o__ e__ o__
a__ /o__ o__ w__ t__ P__ i__ t__ O__.

A mid-range PCL position will minimize the potential of engine overtorque and/or overtemperature when the PMU is turned OFF.

* 2. PMU SWITCH – OFF

CAUTION

T__ i_ a p__ f__ l__ l__ t__ b__ e__ i__ t__ P__ s__ i__ t__ O__
w__ l__ ≥ 8 °C.

There is a potential for ITT limits to be exceeded if the PMU switch is turned OFF with ITT ≥ 820 °C.

CAUTION

G_____ i_____ w_____ n_____ b_____ a_____ d_____ l_____ r_____ a_____ t_____. P_____ f_____
i_____ l_____ d_____ d_____ t_____ h_____ l_____ N_____ (a_____ %).

Ground idle will not be available during landing rollout and taxi. Plan for increased landing distances due to higher IDLE N1 (approximately 67%).

*** 3. PROP SYS CIRCUIT BREAKER (left front console) - PULL, IF NP STABLE BELOW 40%**

NOTE

W_____ c_____ a_____ a_____ t_____, R_____ c_____ b_____ c_____ s_____ i_____ b_____ %
a_____ n_____ u_____ c_____ f_____ a 3-s_____ p_____.

With constant airspeed and torque, RPM can be considered stable if below 40% and no upward change for a 3-second period.

NOTE

I_____ N_____ i_____ d_____ r_____ X's, s_____ t_____ P_____ t_____ N_____ a_____ b_____ O_____
w_____ r_____ t_____ P_____ a_____ s_____ r_____ t_____ N_____ i_____.

If NP indicator is displaying red X's, switching the PMU to NORM and back OFF will reset the PMU and should restore the NP indication.

NOTE

P_____ s_____ c_____ o_____ o_____ f_____ w_____ 1_-2_ s_____.

Propeller should come out of feather within 15-20 seconds.

*** 4. PCL - As required**

WARNING

If rate of descent (indicated on the VSI while stabilized at 125 KIAS with gear, flaps, and speed brake retracted and 4-6% torque) is greater than 1500 ft/min, increase torque as necessary (up to 131%) to achieve approximately 1350-1500 ft/min rate of descent. If engine power is insufficient to produce a rate of descent less than 1500 ft/min, set PCL to OFF.

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NOTE

The pilot should consider moving the PCL through the full range of motion to determine power available.

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IF POWER IS SUFFICIENT FOR CONTINUED FLIGHT:

*** 5. PEL – Execute**

IF POWER IS INSUFFICIENT TO COMPLETE PEL:

CAUTION

Consideration should be given to leaving the engine operating with PCL at mid range.

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*** 6. PROP SYS circuit breaker - Reset, as required**

WARNING

With the PROP SYS circuit breaker pulled and the PMU switch OFF, the feather dump solenoid will not be powered. The propeller will feather at a slower rate as oil pressure decreases and the feathering spring takes effect. Glide performance will be considerably reduced and it may not be possible to intercept or fly the emergency landing pattern.

*** 7. PCL – OFF**

*** 8. FIREWALL SHUTOFF handle – Pull**

*** 9. Execute Forced Landing or Eject**

COMPRESSOR STALL

1 Warning 1 Note

- * 1. PCL - Slowly retard below stall threshold
- * 2. DEFOG switch – ON

NOTE

S_____t_____D_____s_____t_____O_____a_____s_____h_____b_____a_____i_____a_____
w_____a_____b_____p_____o_____t_____e_____c_____.

Setting the DEFOG switch to ON automatically selects high bleed air inflow and will alleviate back pressure on the engine compressor.

- * 3. PCL - Slowly advance (as required)

IF POWER IS SUFFICIENT FOR CONTINUED FLIGHT:

- * 4. PEL – Execute

IF POWER IS INSUFFICIENT TO COMPLETE PEL:

- * 5. PCL – OFF

WARNING

W_____t_____e_____i_____s_____u_____t_____h_____r_____o_____d_____, a_____d_____i_____
s_____d_____t_____e_____t_____f_____t_____p_____m_____r_____i_____i_____
a_____t_____r_____a_____s_____l_____s_____.

When the engine is so underpowered that high rates of descent occur, any delay in shutting down the engine to feather the propeller may result in insufficient altitude to reach a suitable landing site.

- * 6. FIREWALL SHUTOFF handle – Pull
- * 7. Execute Forced Landing or Eject

INADVERTENT DEPARTURE FROM CONTROLLED FLIGHT

2 Warnings 1 Caution 1 Note

* 1. PCL – IDLE

* 2. CONTROLS – NEUTRAL

WARNING

I _____ p _____ t _____ s _____ /e _____ a _____ o _____ t _____ n _____ p _____
m _____ s _____ d _____ o _____ p _____ t _____ a _____ f _____ r _____ f _____ a _____
O _____ /s _____ w _____ c _____ r _____ i _____ l _____ o _____ a _____ a _____ /o _____ c _____.

Improperly positioning the control stick/elevator aft of the neutral position may significantly delay or prevent the aircraft from recovering from an OCF/spin which could result in loss of aircraft and/or crew.

NOTE

C _____ o _____ c _____ p _____ o _____ a _____ a _____ c _____ p _____ c _____
a _____ a _____ m _____ a _____ s _____ d _____ r _____.

Cycling of control positions or applying antispin controls prematurely can aggravate aircraft motion and significantly delay recovery.

* 3. ALTITUDE – CHECK

WARNING

R _____ m _____ a _____ f _____ e _____ i _____ f _____ A _____.

Recommended minimum altitude for ejection is 6000 feet AGL.

*** 4. Recover from unusual attitude**

CAUTION

P_____o_a_____i_____d_____o_s_____w_____r_____i_h_____l_____o_t_____
e_____a_____t_____s_____. l_a_i_____o_p_____o_d_____i_e_____, l_____
a_s_____a_c_____p_____. T_____p_____s_____s_____p_____e_____d_____
a_m_____e_____u_____e_____o_____a_____b_l_____o_p_____o_____
C_____d_____w_____. l_a_____c_____o_i_____o_p_____o_d_____, t_____
e_____s_____b_i_____b_q_____m_____p_____a_____f_____.

Power-on and inverted departures or spins will result in high loads on the engine and torque shaft. If an inverted or power-on departure is encountered, land as soon as conditions permit. The pilot should suspect possible engine damage and may experience unusual engine operation accompanied by low oil pressure or CHIP detector warning. In all cases of inverted or power-on departures, the engine shall be inspected by qualified maintenance personnel after flight.

FIRE IN FLIGHT

4 Warnings

WARNING

I _____ o_ t_ f _____ w _____ l _____ a _____ b_ o_ o_ m _____ o_ t_ _____
f _____ i _____ i_ c _____ o_ a_ e _____ f _____: s _____; f _____; e _____
v _____; u _____ s _____; h _____ l _____; a _____ f _____ o_ p _____, o_ _____
t _____, o_ h _____ p _____.

Illumination of the fire warning light accompanied by one or more of the following indications is confirmation of an engine fire: smoke; flames; engine vibration; unusual sounds; high ITT; and fluctuating oil pressure, oil temperature, or hydraulic pressure.

IF FIRE IS CONFIRMED:

- * **1. PCL – OFF**
- * **2. FIREWALL SHUTOFF HANDLE – PULL**

IF FIRE IS EXTINGUISHED:

- * **3. Forced Landing – Execute**

IF FIRE DOES NOT EXTINGUISH OR FORCED LANDING IS IMPRACTICAL:

- * **4. Eject (BOTH)**

IF FIRE IS NOT CONFIRMED:

- * **5. PEL – Execute**

WARNING

A f _____ w _____ l _____ w _____ n_ a _____ i _____ i_ n_ a c _____ f _____. D_ _____
n_ s _____ d _____ a_ e _____ f _____ a_ u _____ f _____.

A fire warning light with no accompanying indication is not a confirmed fire. Do not shut down an engine for an unconfirmed fire.

WARNING

High engine compartment temperatures resulting from a bleed air leak may cause illumination of the fire warning light. Reducing the PCL setting towards IDLE will decrease the amount of bleed air and possibly extinguish the fire warning light; however, advancing the PCL might be required to intercept the ELP. Regardless of reducing or advancing the PCL, continue to investigate for indications confirming an engine fire.

WARNING

If the fire cannot be confirmed, the fire warning system may be at fault and should be tested as conditions permit. If only one fire loop annunciator is illuminated (top or bottom half only), a false fire indication may exist if the other loop tests good.

SMOKE AND FUME ELIMINATION/ELECTRICAL FIRE

1 Warning 1 Note

WARNING

U____ v____ c____ o_ f____ a____/o_ s____ w____ a____ c____ i____
j_____, t_ p____ h_ t_ o____ o_ a____ C____ o_ e____.

Under varying conditions of fire and/or smoke where aircraft control is jeopardized, the pilot has the option of actuating CFS or ejecting.

NOTE

I_ a f____ c____ c_ b_ i____ a_ t_ s____ o_ s____ a_ f____, t____
d____ u____ o____ o_ p____ r____ c____ b____. C____ b____ f____
i____ o_ t____ h____ b____ b____ a____ n____ a____ i_ f____.

If a faulty component can be identified as the source of smoke and fumes, turn defective unit off or pull respective circuit breaker. Circuit breakers for items on the hot battery bus are not accessible in flight.

*** 1. OBOGS - CHECK (BOTH)**

- a. OBOGS supply lever - ON
- b. OBOGS concentration lever - MAX
- c. OBOGS pressure lever – EMERGENCY

CHIP DETECTOR WARNING
1 Caution

*** 1. PCL - Minimum necessary to intercept ELP; avoid unnecessary PCL movements**

CAUTION

H_____ p_____ s_____ m__ a_____ t__ e_____ c_____.

Higher power settings may aggravate the existing condition.

*** 2. PEL – Execute**

OIL SYSTEM MALFUNCTION OR LOW OIL PRESSURE

1 Caution 4 Notes

NOTE

U__t__p____f__a__o__t__f____:r__O__P__a____i____,
a____O__P__a____i____,o__p____f____,o__
t____o__o__l____,o__v____c____l____o__f__t__a____.

Use this procedure for any of the following: red OIL PX annunciator illuminated, amber OIL PX annunciator illuminated, oil pressure fluctuations, oil temperature out of limits, or visibly confirmed leaking oil from the aircraft.

NOTE

I__O__P__w____i____a__o__p____i____<_p____,c____O__T____
c____b____o__t__b____b__c____b____p____(l____f____c____).I__
t__c____b____i__o____,i__m__b__r____.

If OIL PX warning illuminates and oil pressure indicates <5 psi, check OIL TRX circuit breaker on the battery bus circuit breaker panel (left front console). If the circuit breaker is open, it may be reset.

NOTE

D__t__t__s____o__t__s____c____u____,a s____,m____
i____o__t__a____O__P__c____w____m____i__p____b__m__
n__i____a m____.

Due to the sensitivity of the signal conditioning unit, a single, momentary illumination of the amber OIL PX caution while maneuvering is possible but may not indicate a malfunction.

NOTE

I____o__b__r__a__a____O__P__m____w____t__o__p____g____
i____n____p____i____a__S__f____.

Illumination of both red and amber OIL PX message while the oil pressure gage indicates normal pressure indicates an SCU failure.

IF ONLY AMBER OIL PX CAUTION ILLUMINATES:

- * 1. **Terminate maneuver.**
- * 2. **Check oil pressure; if oil pressure is normal, continue operations**

IF RED OIL PX WARNING ILLUMINATES AND/OR
AMBER OIL PX CAUTION REMAINS ILLUMINATED FOR 5 SECONDS,
OIL PRESSURE FLUCTUATIONS,
OR OIL TEMPERATURE OUT OF LIMITS:

- * 3. **PCL - Minimum necessary to intercept ELP; avoid unnecessary PCL movements**

CAUTION

H_____ p_____ s_____ m_____ a_____ t_____ e_____ c_____.

Higher power settings may aggravate the existing condition.

- * 4. **PEL – Execute**

LOW FUEL PRESSURE

1 Caution 1 Note

* 1. PEL – Execute

NOTE

If the FUEL PX warning remains illuminated, the engine-driven high pressure fuel pump is suction feeding. Engine operation with high pressure pump suction feeding is limited to 10 hours.

If the FUEL PX warning remains illuminated, the engine-driven high pressure fuel pump is suction feeding. Engine operation with high pressure pump suction feeding is limited to 10 hours.

* 2. BOOST PUMP switch – ON

CAUTION

Unless a greater emergency exists, do not reset BOOST PUMP circuit breaker (left front console) if open.

Unless a greater emergency exists, do not reset BOOST PUMP circuit breaker (left front console) if open.

HIGH FUEL FLOW

1 Warning

IF FUEL FLOW IS 800 PPH OR GREATER:

* 1. PEL – Execute

WARNING

H_____ p_____ s_____ a_____ b_ h_____ l_____ m_____ a_____ t_____ e_____
c_____. H_____, i_ l_____ i_ w_____ l_____ r_____ p_____ c_____ r_____ i_ e_____
f_____.

Higher power settings accompanied by high ITT may aggravate the existing condition.
However, if ITT is within limits reducing power could result in engine flameout.

OBOGS FAILURE/OVERTEMP/PHYSIOLOGICAL SYMPTOMS

2 Warnings 2 Cautions 5 Notes

CAUTION

I_____o_t_____O_____T_____m_____i_____a f_____o_t_____O_____h_____
e_____, a_i_c_____a f_____o_t_____O_____s_____.

Illumination of the OBOGS TEMP message indicates a failure of the OBOGS heat exchanger, and is considered a failure of the OBOGS system.

* 1. GREEN RING - PULL (AS REQUIRED) (BOTH)

WARNING

E_____o_____b_____p_____a_____1_m_____o_o_____. I_
a_____p_____a_____i_a_____1_____f_____M_____, e_____t_____a_____r_____
a_a_____o_1_____f_____M_____o_l_____p_____t_____e_____o_t_____e_____
o_____s_____o_t_____e_____o_h_____m_____i_____t_____c_____.

Emergency oxygen bottle provides approximately 10 minutes of oxygen. If aircraft pressure altitude is above 10,000 feet MSL, ensure the aircraft reaches an altitude of 10,000 feet MSL or lower prior to exhaustion of the emergency oxygen supply or the effects of hypoxia may incapacitate the crew.

WARNING

T_____O_____c_____m_____m_____r_____i_z_____d_____i_t_____b_____
s_____w_____a_i_____o_t_____O_____F_____l_____. I_____o_t_____
m_____i_____r_____i_____, c_____, o_t_____p_____o_w_____
d_____i_t_____o_____m_____. I_____o_z_____d_____s_____b_a_____.

The OBOGS concentrator may malfunction resulting in zeolite dust in the breathing system without an illumination of the OBOGS FAIL light. Indications of this malfunction include respiratory irritation, coughing, or the presence of white dust in the oxygen mask. Inhalation of zeolite dust should be avoided.

CAUTION

W__ b__ o__ u__ i__ p__, b__ a__ a__ r__ a__ d__
s__ l__ t__ n__ t__ p__ h__.

When breathing oxygen under increased pressure, breathe at a rate and depth slightly less than normal to preclude hyperventilation.

NOTE

l__ p__ s__ a__ r__, i__ a__ t__ a__ p__ a__ s__
s__ o__ o__ i__ t__ b__ c__ o__ a__ t__ e__ r__. l__ t__ c__
a__ i__ a__ 1__ f__, p__ t__ G__ R__ i__ r__ s__ a__
c__ a__ c__ i__ o__ p__ t__ s__ p__
r__. A__ a__ c__ a__ o__ 1__ f__ o__ b__, p__ t__ G__
R__ i__ o__ a__ a__ c__ a__ c__ s__ o__ p__ t__
s__ p__ r__.

If physiological symptoms are recognized, immediate access to a pure and secure source of oxygen is the best course of action to expedite recovery. If the cockpit altitude is above 10,000 feet, pulling the GREEN RING is required since ambient cockpit air contains insufficient oxygen pressure to support physiological requirements. At a cockpit altitude of 10,000 feet or below, pulling the GREEN RING is optional as ambient cockpit air contains sufficient oxygen pressure to support physiological requirements.

NOTE

W__ t__ e__ o__ s__ i__ a__, h__ p__ a__ m__ m__ v__
c__ w__ t__ o__ c__ o__ A__ m__ d__.

When the emergency oxygen system is actuated, high pressure air may make verbal communication with the other crewmember or ATC more difficult.

NOTE

O____ a____, e____ s____ e____ o____ c____ b____ s____ o____ a____ w____
 p____ o____ f____ u____ t____ c____ i____ d____ (1____ m____). S____ t____
 e____ o____ s____ i____ n____ r____, i____ i____ n____ f____ p____ t____ g____
 d____ t____ t____ p____ i____ f____ l____ t____ o____ i____ d____ b____ r____ 1____
 m____ o____ u____, h____ o____ i____ s____ b____ s____.

Once activated, ejection seat emergency oxygen cannot be shut off and will provide oxygen flow until the cylinder is depleted (10 minutes). Since the emergency oxygen system is not regulated, it is normal for pressure to gradually decrease to the point it feels like the oxygen is depleted before reaching 10 minutes of use, however oxygen is still being supplied.

NOTE

S____ p____ t____ g____ r____ u____ a____ a____ t____ a____ t____ e____ o____ s____.
 S____ u____ a____ a____ p____ a____ m____ b____ r____ t____ f____ a____ o____ f____.

Sharply pull the green ring up and aft to activate the emergency oxygen system. Several up and aft pull attempts may be required to fully activate oxygen flow.

NOTE

P____ f____ t____ a____ t____ e____ o____ s____ m____ b____ a____ h____ a____ 4____ p____.

Pull force to activate the emergency oxygen system may be as high as 40 pounds.

* 2. DESCENT BELOW 10,000 FEET MSL – INITIATE

* 3. OBOGS SUPPLY LEVER - OFF (BOTH)

EJECT

3 Warnings 1 Note

* 1. EJECTION HANDLE - PULL (BOTH)

WARNING

T_a____i____, g____h____a____p____s____t____a____, k____e____
a____t____b____.

To avoid injury, grasp handle and pull sharply toward abdomen, keeping elbows against the body.

WARNING

T_e____e____s____i____a_e____c____f____s____.
T_f____o_d____b____n____s____a_s____f____o____f____
t_c____a_i____t_c____. S____m____f____m_b_e____h_a____
m_c____b____u____c____w____t_s____. A____s____e____e____s____
i_c____, t_o____m____i_o____, a_v____i_d____p____t_e____o_a____
t_C_s____t_p____i____f____s____a_h_f____.

The emergency escape system incorporates an explosive canopy fracturing system. The force of detonation blows numerous shards and small fragments outward from the canopy and into the cockpit. Some metallic fragments may be extremely hot and may cause burns upon contact with the skin. Aircrew should ensure exposed skin is covered, the oxygen mask is on, and visor is down prior to ejection or actuating the CFS system to prevent injury from shards and hot fragments.

WARNING

W_e____o____m____t____e____f____M____, t_m____
o____(M____) h____s____b_u____t_m____s____f____t_s____a_d____
t_p____.

When ejecting over mountainous terrain exceeding 8000 feet MSL, the manual override (MOR) handle should be used to manually separate from the seat and deploy the parachute.

NOTE

If ejecting at low speed, one or both sets of risers may remain velcroed together following seat separation. This may create a slight increase in descent rate and/or an uncommanded turn. Manually separate the risers if time permits. The steering lines (toggles) are located on the backside of each of the front risers. To counter any uncommanded turns, unstow the opposite steering line or use risers for controllability.

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FORCED LANDING

5 Warnings 2 Cautions 4 Notes

WARNING

Aircraft may float while approaching touchdown with the propeller feathered more than observed while conducting practice forced landing at 4-6% torque. Energy management is critical to achieving targeted touchdown position. Landing ground roll distance will increase with the propeller feathered.

WARNING

Landing on an unprepared surface may cause structural damage making it impossible to open the canopy or fracture it using the CFS.

WARNING

Engine failure or shutdown will completely disable the bleed air system. Depending on environmental conditions, this may cause significant canopy icing and/or fogging, and severely hamper visibility, especially from the rear cockpit.

CAUTION

Ejection is recommended if a suitable landing area is not available. If circumstances dictate an emergency landing and ejection is not possible or the ejection system malfunctions, the pilot may perform an ELP to an unprepared surface or ditch the aircraft. The aircraft structure can survive either type of forced landing; however, the risk of injury increases significantly due to crash loads and the complexity of ground or water egress.

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CAUTION

Inducing yaw (side slipping) with a known engine/oil malfunction could result in impaired windshield visibility due to oil leakage spraying onto the windshield.

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* 1. Airspeed - 125 KIAS prior to extending landing gear

* 2. EMER LDG GR handle - Pull (as required)

WARNING

If landing on an unprepared surface or ditching, do not extend the landing gear. Flaps will not be available without emergency gear extension.

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NOTE

N_____s_____i_____w_____e_____p_____, w_____t_____e_____e_____
s_____h_____b_____u_____t_____l_____t_____g_____, a_____t_____g_____m_____g_____l_____, t_____r_____m_____
d_____l_____, g_____n_____g_____l_____, a_____r_____l_____i_____h_____.

Normal safe indications with electrical power, when the emergency extension system has been used to lower the gear, are two green main gear lights, two red main door lights, green nose gear light, and red light in handle.

- * 3. Airspeed - 120 KIAS minimum until intercepting final; 110 KIAS minimum on final
- * 4. Flaps - As required

WARNING

D_____n_____l_____f_____L_____u_____l_____i_____a_____. D_____w_____i_____d_____
o_____l_____f_____a_____l_____.

Do not lower flaps LDG until landing is assured. Drag will increase dramatically once landing flaps are lowered.

NOTE

S_____e_____T_____o_____L_____f_____w_____e_____t_____f_____t_____t_____c_____p_____
i_____t_____l_____h_____b_____e_____u_____t_____e_____e_____s_____a_____i_____
b_____p_____i_____a_____.

Selecting either TO or LDG flaps will extend the flaps to the commanded position if the landing gear has been extended using the emergency extension system and if battery power is available.

NOTE

L_____g_____/f_____r_____i_____n_____p_____w_____t_____e_____e_____
s_____h_____b_____u_____.

Landing gear/flap retraction is not possible when the emergency extension system has been used.

NOTE

Nose wheel steering is unavailable with an inoperative engine. Maintain directional control with rudder and differential braking.

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PRECAUTIONARY EMERGENCY LANDING (PEL) 4 Warnings 2 Cautions

WARNING

If the engine should fail while flying the PEL, refer to the Engine Failure During Flight checklist, and transition to the Forced Landing procedure.

WARNING

If rate of descent (indicated on the VSI while stabilized at 125 KIAS with gear, flaps, and speed brake retracted and 4 to 6% torque) is greater than 1500 ft/min, increase torque as necessary (up to 131%) to achieve approximately 1350 to 1500 ft/min rate of descent. If engine power is insufficient to produce a rate of descent less than 1500 ft/min, set PCL to OFF.

WARNING

Once on profile, if engine is vibrating excessively, or if indications of failure are imminent, set PCL to OFF.

WARNING

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CAUTION

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CAUTION

At higher temperature and pressure altitudes, power response will be delayed. Airspeeds below 110 KIAS on ELP final, in combination with transitioning to a high flare, may lead to a hard landing resulting in landing gear component failure.

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- * 1. Turn to nearest suitable field
- * 2. Climb or accelerate to intercept ELP
- * 3. Gear, flaps, speed brake - UP

C B D D R L R
(Check BIP Determine Deliver Reduce Lower Report)