

EMERGENCY DRILLS

ENGINE FAILURE

1. If mechanical failure **DO NOT RELIGHT**

Throttle	Shut
H.P. and L.P. cocks	Closed
Booster pump	OFF
Non-essential electrics	Off

2. Flame-out

Attempt relight immediately. If no relight within 10 seconds

Throttle	½ open (shut if isolating switch ON)
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H.P. cock	Closed
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Non-essential electrics	Off
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Booster pump	ON if immediate relight to be made, otherwise OFF
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RELIGHTING

Height	Below 40,000 ft. if isolating switch OFF. Below 30,000 ft. if isolating switch ON.
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Speed	180-250 kts.
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Windmilling speed	Not more than 1,800 r.p.m.
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Non-essential electrics	Off.
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Throttle	¼ open (shut if isolating switch ON).
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Ground/flight switch	FLIGHT.
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Booster pump	ON.
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Press relight button and open H.P. cock quickly, keeping button pressed 15-20 seconds. Close throttle when r.p.m. rise or after 5-6 seconds. Open throttle carefully when idling r.p.m. attained.

ENGINE FIRE

1. Close throttle immediately.

2. If light remains on:—

L.P. and H.P. cocks	Closed
Booster pump	OFF
Emergency oxygen	ON
Pressurisation	OFF
Speed	Minimum

3. Press extinguisher button. Light goes out if fire extinguished.

HOOD JETTISON

1. Speed below 240 kts.

2. Pull jettison handle.

3. If unsuccessful:—

Pull rear ring, then open normally, keeping hand unclenched.

ABANDONING

1. Speed 150-200 kts.

2. Trim Nose-heavy.

3. Invert aircraft, release harness, fall out.

HYDRAULIC FAILURE

Set flap lever to neutral.

Use handpump after making normal selection.

Lower undercarriage before operating flaps.

LOSS OF COCKPIT PRESSURE

1. Type J mask

Emergency oxygen	ON
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Valve on mask	H
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Descend rapidly to 30,000 ft. or below.

2. Type H mask

Emergency oxygen	ON
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Descend rapidly to 30,000 ft. or below.

OXYGEN FAILURE

1. Use emergency oxygen on parachute.

2. Descend below 10,000 ft.

RESTRICTED
CHECK LISTS

CHECKS BEFORE TAKE-OFF

- (a) Free take-off.
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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trimmers | All neutral. |
| Alleron gear | Halfway. |
| Airbrakes | IN. |
| Wings | Spread and locked. Indicators black. External indicators flush. Both levers fully up in gates. Wing fold doors closed. |
| Fuel | H.P. and L.P. cocks fully on. Contents. Booster pump ON. Isolating switch as required. Tip-tank fuel jettison switch CLOSED (JETTISON if tanks empty). |
| Flaps | 30°. |
| Instruments | FLIGHT INSTRUMENTS switch ON. INVERTER B switch ON. Artificial horizon erect. Turn indicator functioning. PITOT HEAD heater ON. Mk. 4B compass synchronised with E2A. |
| Oxygen | ON, reaching mask, EMERGENCY OFF, low flow (high if cockpit altitude to exceed 25,000 ft.) |
| Hood | Shut and locked, catch engaged, seal inflated. D.V. panel closed. Pressure OFF, HOT or REDUCE. |
| Harness | Tight and locked. |

(b) R.A.T.O.

- The following alterations and additions should be made to check list (a):
- | | |
|---------------------|------------------------------------------------|
| Trimmers | Elevator 1 div. nose-down. |
| Flaps | 45°. |
| RATOG safety switch | Disengaged (to port). Yellow warning light on. |

CHECKS BEFORE LANDING

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|---------------|----------------------------------------------------------|
| Airbrakes | IN. |
| Arrester hook | Up, light out. |
| Undercarriage | Locked down, selector lever in slot. Three green lights. |
| Brakes | Check pressures. Off. |
| Fuel | Contents. |
| Flaps | Fully down on finals. |
| Harness | Tight and locked. |
| Radar | Off. |

INSTRUMENT APPROACH

- Downwind
7,500 r.p.m. $\frac{1}{2}$ flap. 145 knots.
- Base Leg
7,500-8,000 r.p.m. $\frac{1}{2}$ flap. 120-125 knots.
- Glide path
6,500-7,000 r.p.m. $\frac{1}{2}$ flap. 115-120 knots.
- When runway in view, lower flaps fully and reduce speed to 115 knots.

ENGINE LIMITATIONS

Take-off and operational necessity (30 mins)	10,250 r.p.m.* 725° C.
Max. continuous	9,750 r.p.m. 625° C.
Approach (min.)	5,000 r.p.m. —
Ground idling	3,000 ± 200 r.p.m. 450° C.

* Max. r.p.m. to be reduced to 10,100 above 25,000 ft. in climb and above 35,000 ft. in level flight.

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LIGHTNING MK. 1
COVER PITOT HEAD
EB2-88-5111