

PART V

EMERGENCY HANDLING

99. Engine failure and flame-out

(a) *Engine seizure*

Engine seizure will involve both hydraulic and electric supply failure. If the engine has failed due to obvious mechanical causes do not attempt to relight. Proceed as follows:—

- (i) Close the throttle. Turn off the H.P. and L.P. cocks and switch off the booster-pumps.
- (ii) Reduce speed and glide at 210 knots.
- (iii) Switch off all unnecessary electrics, including TAIL-PLANE.
- (iv) Set tailplane incidence to $\frac{1}{2}^{\circ}$ N.U. Release aileron trim safety lock and check that trim indicator is at zero (see para. 103).
- (v) The controls may be left in Power, but manual reversion must be expected.
- (vi) Carry out forced landing procedure (see para. 109) or abandon.

(b) *Sudden drop in engine speed*

- (i) If a sudden inexplicable drop in engine speed occurs, which cannot be identified as engine surge (see para. 60 (d)) proceed as follows:—

Above 20,000 ft. Close the throttle fully and descend; check engine response to throttle movement during the descent.

Below 20,000 ft. If the engine fails to respond to normal throttle movements, close the throttle fully and (when fitted) set the H.P. pump isolating switch to ISOLATE. If the engine still fails to respond to throttle movement, leave the switch at ISOLATE and carry out relight action. Once the switch has been set to ISOLATE it must be left there for the remainder of the flight; with it thus set the B.P.C. and A.C.U. are ineffective and all throttle movements must be made with care.

(c) Flame-out

- (i) If a flame-out occurs a relight may be attempted *immediately*, while r.p.m. are decreasing, by pressing the relight button with the H.P. cock open and the throttle at its set position. A successful relight will be indicated by the r.p.m. stabilizing and then commencing to rise; the likelihood of a successful relight is increased if the height and airspeed are below the recommended maxima for relighting.
- (ii) If no relight occurs within 10 seconds, release the relight button and proceed as follows:—
- | | |
|---------------------------------------|--|
| H.P. cock | OFF |
| Throttle | Closed |
| L.P. cock | Leave on |
| All non-essential electrical services | OFF (see para. 64 (b)) |
| If below 35,000 ft. | Relight at once |
| If above 35,000 ft. | Switch off the booster pumps, descend to 35,000 ft. and carry out the relight drill. |
- (iii) If above 35,000 ft. the decision either to descend quickly or glide at 210 knots will depend on the prevailing circumstances, e.g. weather conditions, distance to travel, etc. The following should be borne in mind.
1. The likelihood of obtaining a relight increases with decrease in altitude.
 2. At best gliding speed the aircraft will cover approximately 2 miles per 1,000 ft.
 3. With normal services running, the battery cannot be relied on for more than approximately 5 minutes. All non-essential services including booster pumps should therefore be switched off to conserve battery power.
 4. Unless Mod. 502 is embodied Manual should be selected before attempting to relight in case relighting is unsuccessful and the batteries are weakened to the extent that it will not be possible to select Manual.

5. Descending rapidly at a speed above 210 knots will increase the windmilling r.p.m. Consequently hydraulic pressure will be higher and the generators may continue to supply power (see also para. 64 (b)).
6. If a glide is to be made at 210 knots the tailplane should be set to $\frac{1}{2}^{\circ}$ N.U.
7. If it is necessary to descend more rapidly than at normal gliding speed 15° flap may be used to increase the rate of descent, but the speed must not exceed 0.9M and the tailplane incidence must be left at $\frac{1}{2}^{\circ}$ N.U. Intermediate degrees of flap can only be selected while electric power is available. The pull force needed to reduce speed to 210 knots will be considerable if in Manual.

100. Relighting

Page 95
Para.
100
NOTE
A.L.3

- NOTE.—1. Relights are obtained more easily at lower altitudes and with lower airspeeds. Every precaution should be taken to ensure success at the first attempt due to the loads on the battery. If the engine and its fuel system are serviceable and the drill is followed correctly, a relight should occur at the first attempt.
2. If below 20,000 ft. set the H.P. pump isolation switch to ISOLATE before relighting and leave it at ISOLATE after relighting has been accomplished.

- (a) (i) Check and/or set:—
- | | |
|-----------------------------|--|
| Maximum altitude | 35,000 ft. |
| Maximum airspeed | 200 knots above 25,000 ft.
0.80M below 25,000 ft. |
| All non-essential electrics | OFF (see para. 64 (b)) |
| Throttle | Closed |
| Battery master switch | ON |
| Ignition switch | ON |
| Starter master switch | ON |
| Booster-pumps | ON or AUTO |
- (ii) Press the relight button and at the same time open the H.P. cock fully, keeping the relight button pressed until the engine lights up and r.p.m. rise by about 200. R.p.m. should start to rise almost immediately. When the r.p.m. rise to idling, increase power carefully.

- (iii) If no relight occurs within 30 seconds, release the relight button, close the H.P. cock, switch off the booster pumps. Allow, if possible, 30 seconds for the engine to dry out before the next attempt.

(b) *Emergency relighting*

- (i) In circumstances where the engine cannot be relit by use of the above drill, provided that the pilot is reasonably certain that the fault lies in the relight button circuit, it may be possible to obtain a light-up using the starter pushbutton in the following way:—
- (ii) To ensure that a live cartridge is not fired, the spent cartridge with which the engine was ground-started should first be mechanically reindexed. To do this set the starter master switch OFF and then press the starter pushbutton fully in twice, pausing for an instant between each operation to allow the button to spring fully out.

(iii) Check and/or set:—

Maximum altitude	15,000 ft.
Maximum airspeed	0.80M
All non-essential electrics	OFF (see para. 64 (b))
Throttle	Closed
Battery master switch	ON
Booster pumps	ON or AUTO
Starter master switch	ON
Ignition switch	ON

- (iv) Press the starter pushbutton again and then open the H.P. cock fully. The igniters will then function but if the reindexing drill has been correctly carried out a cartridge will not be fired. If no relight occurs within 30 seconds, set the H.P. cock OFF when the starter button comes out. The spent cartridge must be re-indexed as in (ii) above before any further attempt is made.

WARNING.—If for any reason the reindexing drill has not been correctly carried out and a live cartridge is indexed when the starter button is finally pressed, it is probable

that damage will be caused to the starter and to the aircraft. This probability may be lessened to some extent if the engine windmilling speed is low and positive G is not applied at the time of operating the pushbutton.

(c) *Failure to relight*

- (i) If the engine fails to relight turn off the H.P. and L.P. cocks and switch off all non-essential electrical services (including the booster pumps).
- (ii) Set the tailplane incidence to $\frac{1}{2}^{\circ}$ N.U. and reduce speed to the trimmed condition.
- (iii) Release the aileron trim safety lock and check that the trim indicator is at zero.
- (iv) Carry out forced landing procedure (see para. 109) or abandon.

101. **Action in the event of fire**

- (a) If the engine fire warning light comes on, the throttle should be closed immediately. If the light then goes out within 5 seconds, a hot gas leakage as distinct from a fire is indicated. It is safe to use the engine in this condition, but a landing should be made as soon as practicable. Reduced power should be used, but unless the power required is low the light will probably come on again. It is advisable, therefore, to throttle back every 5 minutes to check the light goes out in order to ensure that a fire has not started.

- (b) Should the light remain on after throttling back, a fire is indicated. Should a fire occur:—

H.P. cock	OFF
L.P. cock	OFF
Booster-pumps	OFF

and quickly reduce airspeed to a practicable minimum. Then press the extinguisher pushbutton. Should the light remain on and the fire persist, the aircraft should be abandoned.

- (c) If a satisfactory extinction has occurred the warning light should go out as the circuit is broken by the cooling of the flame switches. *The engine must not be restarted*, due to the risk of fire with the fire-fighting resources exhausted.

PART V—EMERGENCY HANDLING

- (d) Carry out forced landing procedure (see para. 109) or abandon.

102. Hydraulic system failures

(a) Complete hydraulic failure

- (i) Periodic checks of the triple pressure gauge should be made in flight and the central needle should normally read $2,850 \pm 150$ lb./sq. in. If the reading drops substantially below this figure when no service is being operated, then hydraulic failure should be suspected. The red warning light, and the audio warning when Mod. 327 is fitted, should come on if the pressure falls below 600 lb./sq. in.

Page 98
Para.
102 (a)
(ii)
A.L.2

- (ii) If the hydraulic supply pressure fails, there may be sufficient reserve in the power controls accumulators for a maximum of 3½ full reversals of aileron and elevator, the actual reserve depending on the state of charge of the respective accumulators at the time of failure. However, even if no control movement is made, accumulator pressure will not be maintained for a long period, due to normal hydraulic component seepage. When the accumulators are exhausted the controls will revert automatically to Manual. It is important, therefore, that drop tanks containing fuel should be jettisoned before Manual reversion occurs.

- (iii) A failure in the power controls hydraulic circuit, as distinct from supply failure, may lead to immediate and automatic Manual reversion when the pressure at the locking pawls has fallen well below that at which the warning light becomes illuminated.

(b) Action in the event of complete hydraulic failure

- (i) Complete failure will be indicated by a loss of pressure on the gauge followed by the red light coming on and, when Mod. 327 is incorporated, by the audio warning.

Page 98
Para.
102 (b)
(ii)
A.L.2

- (ii) Immediate actions are:—
1. Reduce speed to 250 knots or 0.80M. 40,000 ft.
 2. Release aileron trim safety lock and check that trim indicator shows zero.
 3. Jettison drop tanks if they contain fuel.
 4. The controls may be left in Power providing electrical supply is normal or Mod. 502 is incorporated, but when Manual reversion occurs, and in any case at a safe height before joining the circuit switch OFF elevator and aileron Power.

PART V—EMERGENCY HANDLING

- (iii) Lower undercarriage and flaps on the emergency systems.

(c) (i) Partial hydraulic failure

Partial hydraulic failure can occur due to a type of leak which could cause complete loss of pressure during the operation of a service, but which would allow pressure to build up again when the operation is complete. If Mod. 452 is not embodied, this type of failure can cause the power controls to disengage temporarily and re-engage with the possibility of a false anchorage.

Page 99
Para.
102 (c)
(ii)
A.L.2

(ii) Immediate actions are:—

1. Reduce speed to 250 knots or 0.80M.
2. Release the aileron trim safety lock and check that the trim indicator is at zero.
3. Jettison drop tanks if they contain fuel.
4. The controls may be left in Power to assist in manoeuvring provided that electrical supply is normal but should a false anchorage occur and in any case before landing, switch OFF elevator and aileron Power.
5. If a partial hydraulic failure occurs subsequent to complete electric failure when the controls are still in Power, or Mod. 502 is not incorporated, the landing is likely to be extremely hazardous, and it is recommended that the aircraft be abandoned.

(c) Wheel brakes emergency operation

- (i) 1. Should the hydraulic system fail, the wheel brake accumulators provide sufficient pressure for brake operation during landing, down to a gauge reading of 750 lb./sq. in. approximately. To conserve pressure when landing without main hydraulic pressure do not operate the lever during the down-wind checks.
2. Apply brake pressure in such a way that maxaretting does not occur (little pressure at high speed but increasing with decrease in speed) and avoid differential braking as much as possible. The brake lever should not be released after brakes have once been applied as this will result in a large loss of fluid.

- (ii) The H.P. cock should be put OFF on touch-down, if the brakes accumulator pressure is low and the runway short.
- (iii) The aircraft must not be taxied after the landing run has been completed.

103. Action in the event of electrical failure

- (i) If complete generator failure occurs, switch off all non-essential electrical services to conserve the battery for as long as possible.
- (ii) Set the tailplane angle to $\frac{1}{2}^{\circ}$ N.U. and switch the TAILPLANE interconnection off.
- (iii) Provided that the engine is running correctly and hydraulic pressure is normal the flying controls may be left in Power. The magnetic indicators will show white when the batteries are discharged although the controls will remain in Power.

NOTE.—If any doubt as to the serviceability of the hydraulic system exists select Power OFF before the batteries are discharged, unless Mod. 502 is incorporated.

(b) Emergency operation of the tailplane and electric follow-up tail malfunction

Page 100
Para. 103
(b) (i)
A.L.3

- (i) If the normal tailplane motor fails or "runs away", lift the cover of the standby switch on the port shelf and use that control. If this fails to stop the runaway trip the main actuator circuit breaker if mod. 907 is not embodied. Control can then be regained by operation of the standby trimmer, the rate of operation of which is one third that of the normal control. If complete electric failure occurs, control of the tailplane is impossible. It is important therefore to set the tailplane to $\frac{1}{2}^{\circ}$ nose-up before the batteries are fully discharged.
- (ii) If the follow-up tail malfunctions, either in its capacity as a flying control or in its trimming action, the standby trim switch cover must be lifted immediately. The standby actuator can then be used to obtain satisfactory trim. It is possible that the malfunction may not affect the main trim actuator with TAILPLANE selected OFF although it might have shown itself during either normal control movement or trimming with TAILPLANE ON. After raising the

standby trim switch cover, select TAILPLANE OFF, then reselect the main actuator and check the normal trimming action. If the malfunction is still present, revert to the standby actuator and return to base.

(c) Aileron trim malfunction in Manual

- (i) When flying in Manual should the aileron trim actuator malfunction resulting in full trim being applied with subsequent inability to rectify, carry out the following actions:—
Reduce speed below 200 knots. Select elevator power ON.
If above 5,000 ft. select aileron power ON; if below 5,000 ft. leave ailerons in Manual (but see (iii) below). Land as soon as possible.
- (ii) If a one-way restriction occurs when reselecting aileron power clear it in the normal way. If a both-ways restriction occurs reselect Manual immediately and remain in Manual.
- (iii) A landing in Manual with full aileron trim applied will be hazardous and should only be attempted if conditions are favourable.

104. Undercarriage and flaps emergency operation

NOTE.—1. Both systems operate independently of their normal selectors. When Mod. 428 is incorporated both systems are isolated from the powered controls hydraulic system. Thus when either emergency system is operated the power controls will be unaffected, i.e. no jettisoning of hydraulic fluid will occur and the drills contained in (a), (iii) and (iv) and (b) are no longer necessary.

2. When operating either the flap or the undercarriage emergency selector, it must be pulled out to the full extent of the operating wire.

(a) Undercarriage

- (i) If the undercarriage fails to lock down by normal selection when both electric and hydraulic systems are serviceable repeated raising and lowering and the application of sideslip or G may have the desired effect.

- (ii) If all attempts to lower the undercarriage (or any unit of the undercarriage) by the normal system fail, the emergency system should be used. However, if electrical and hydraulic power is normal and either of the undercarriage selector buttons are in, all hydraulic fluid will be jettisoned resulting in Manual reversion. The rate of jettisoning is greater if the UP button is in. Therefore depending on prevailing weather conditions the following should be borne in mind.
- (iii) If conditions are favourable, i.e. good visibility and a steady wind down the runway, Manual should be selected before operating the emergency control and the landing made in Manual.
- (iv) If conditions are not favourable, i.e. a strong cross wind or if the wind is gusting, the loss of hydraulic fluid may be prevented if both undercarriage selector buttons are set to the out position. To achieve this carry out the following procedure.
 1. Select up normally to ensure that the DOWN selector button is out.
 2. Pull out the UP button, which requires little effort, and ensure that it remains out.
 3. Operate the emergency air selector by holding the knob in and then pulling the handle.

WARNING.—It is essential that the UP button remains out. There is a tendency for it to return to the in position. If this occurs Manual reversion will follow in which case the power control switches must be set to OFF.

- (v) With both selector buttons out, both solenoids in the selector valve are de-energized enabling the slide valve to adopt a neutral position. The undercarriage hydraulic lines are thus isolated from the remainder of the hydraulic system and only the fluid in the lower end of the jacks will be jettisoned. The flying controls will remain in Power and the flaps may be operated normally. When the undercarriage up selector button is out the airbrake is isolated.
- (vi) If complete electrical failure has occurred, both solenoids in the selector valve will automatically be

- de-energized and the slide valve will be in the neutral position. When the emergency lowering system is used only the fluid in the lower end of the jacks is jettisoned.
 - (vii) To raise the undercarriage on the ground in an emergency following normal selection, rotate and press the normal UP selector button. It must not be used in this way to retract the undercarriage in the air as there is a risk of the legs being retracted when not fully extended and the leg fairings may be damaged. If the UP button cannot be pressed in normally after take-off, the wheels must be left down and the aircraft landed.
- (b) *Flaps*
- (i) If electrical or hydraulic supply failure has occurred the flaps may be lowered, fully down only, by pulling out the emergency lowering control after first pushing in the central knob. If the electrical supply has failed only the hydraulic fluid in the lower end of the jacks will be jettisoned when the emergency system is used.
 - (ii) If the electrical and hydraulic supplies are normal all fluid will be jettisoned when the emergency lowering system is used, a Manual reversion will then follow. The decision whether to make a flapless landing or a Manual landing will depend on the prevailing wind, length of runway available, and pilot experience.
 - (iii) If the prevailing wind is strong, the runway length is adequate, i.e. 2,000 yards, and the pilot has experience of flapless landings, a flapless landing in Power should be made particularly if the wind is across the runway or gusty. The emergency flap should be used as soon as the nosewheel is lowered on to the runway.
 - (iv) If there is little wind, a Manual landing should be made. Before turning downwind release the aileron trim lock and ensure that the aircraft is in trim, then set both power control switches off. Anticipate the nosedown change of trim, which will occur when emergency flap is selected, by retrimming nose-up. Pull the emergency flap selector early on the approach.

105. Cockpit pressure failure

- (a) Pressurization failure will be indicated by the warning light.

- (c) Check and/or set the following:—
- | | |
|-----------------------------|--|
| H.P. and L.P. cocks | OFF |
| Booster-pumps | OFF |
| Tailplane incidence | $\frac{1}{2}^{\circ}$ N.U. TAILPLANE
switch OFF |
| All non-essential electrics | OFF |
| Aileron trim | Safety lock off
Indicator zero |
| Elevator and aileron power | Leave on temporarily, but
select OFF |
- (1) Before electric power fails
(Unless Mod. 502 is incorporated)
- (2) If a false anchorage occurs
- (d) (i) Engine failure may lead to either or both electrical and hydraulic failure. Experience shows that at 200 knots windmilling r.p.m. will create sufficient hydraulic pressure for limited use of the power controls, but large or frequent use of the controls or selection of any of the services may cause Manual reversion. If pressure rebuilds, and Mod. 452 is not incorporated false anchorages may occur.
- (ii) Unless Mod. 502 is incorporated Power can only be selected off whilst electrical power is available. *To avoid the danger of obtaining a false anchorage with no electrical power available and to prevent inadvertent Manual reversion at an inconvenient stage of the approach, select Power off before electrical failure occurs.* When gliding at 210 knots, windmilling r.p.m. at high altitude will be sufficient to keep the generators charging, but r.p.m. will decrease gradually as height is lost. Frequent checks on the generator warning lights should be made, and after they come on, the batteries should not be relied on for more than 5 minutes.
- (iii) If electrical failure occurs before Manual can be selected, to keep in Power, windmilling r.p.m. should be maintained as high as possible and control movements kept to a minimum; if a reversion to Manual then follows and Mod. 452 is not incorporated, reduce

- airspeed (not below 170 knots) to decrease windmilling r.p.m. and use the controls excessively to avoid a rebuild of pressure. If pressure rebuilds the landing is likely to be extremely hazardous, and it is recommended that the aircraft be abandoned.
- (iv) If a false anchorage occurs with no electric power available, it can only be cleared as described in para. 63. If for any reason this is not possible the aircraft must be abandoned.
- (e) If electrical power is still available, the undercarriage and flaps may be lowered by means of the normal systems, but the services will take longer than usual to lower. If electrical power is not available, the emergency systems can be used, but the undercarriage, once locked down, cannot be retracted either in the air or on the ground in the event of overshooting, and the flaps can only be lowered to the fully-down position.
- (f) (i) If a forced landing on an airfield is being made attempt to arrive overhead at approximately 7,000 ft. or above.
- (ii) **Plan a Manual approach and aim to be downwind opposite the caravan at 210 knots at a minimum of 4,000 feet A.G.L. depending on the prevailing wind conditions.**
- (iii) Turn across wind at 175 knots and when it is certain that the touchdown point can be reached, select full flap. The rate of descent is markedly increased with full flap lowered.
- (iv) Maintain 175 knots on the final approach and aim to cross the threshold at 150 knots. In Manual the pull force to roundout from a glide approach is large.
- NOTE.—1. Experience suggests that it is preferable to lower the undercarriage when making a forced landing on an airfield or in open country. In the down position it absorbs much if not all of the initial impact, assists in retarding the aircraft, and, provided that electrical power is available, and that the emergency lowering system has not been operated, it may be retracted after touch-down if necessary. With the undercarriage up, the aircraft must be lowered gently on to the ground *at the normal speed*; if the speed is too

low a wing drop is likely to occur, and if the speed is too high the aircraft is prone to bounce, the initial impact having a damaging effect on the cockpit.

2. With the undercarriage down, the rate of descent is high, and it increases rapidly as speed is reduced below 180 knots.
3. For practice forced landings, a flap setting of 23° and 5,500 r.p.m. will give a rate of descent comparable with an engine-off glide.

110. Landing with an undercarriage unit not locked down

NOTE.—Experience has shown that these techniques cause minimum damage to the aircraft and none to the pilot.

(a) Both main wheels only locked down

- (i) Use up as much fuel as is safe in order to move the C of G as far aft as possible. Unless circumstances dictate otherwise, land on a runway.
- (ii) Check harness tight and locked.
- (iii) Select hood open when crossing the threshold.
- (iv) Make a powered approach at the normal speed. On touch-down set H.P. cock OFF and maintain a moderate nose-up attitude.
- (v) Trim the tailplane to give full nose-up trim and as the speed falls below 100 knots maintain a high nose-up attitude without actually touching the tail cone on the ground.
- (vi) Lower the nose on to the runway at 80–90 knots and use the brakes gently to keep straight.

(b) Nosewheel and one main wheel locked down

If all attempts to lower the undercarriage satisfactorily fail and only the nosewheel and one main wheel come down, make a normal approach and landing; after touch-down hold the wings level for as long as possible by use of the ailerons. When aileron is applied and when the wing finally drops, the aircraft will swing in the direction of the unlocked wheel; this should be counteracted as much as possible by opposite brake. Experience has shown that

the distance from the landing path to the point of rest averages approximately 250 yards, varying from 100 yards (min.) to 400 (max.). A runway should be chosen which has an area about 400 yards wide available in the direction of the anticipated swing.

Page 109
Para.
110 (c)
A.L.2

(c) Belly landing

If it is necessary to land with the undercarriage retracted, empty drop tanks should be retained. Make a normal approach and fly the aircraft on to the runway at the normal speed.

111. Landing with a burst tyre

No special difficulty is encountered when landing with a burst tyre(s), directional control and braking being adequate.

112. Abandoning the aircraft

- (a) Reduce speed as much as possible, set parachute container fully back, and lower the seat fully.
- (b) If Mod. 281 is not embodied jettison the hood and retract the GGS. If electrical power is available, the GGS should automatically lower on jettisoning the hood.
- (c) If Mod. 281 is embodied the hood is jettisoned immediately either ejection seat firing handle is pulled, ejection following one second later. The GGS is *not* automatically lowered.
- (d) Withdraw the feet from the rudder pedals, at the same time grasping the firing handle. The elbows must be drawn in close to the body and both hands must grasp the handle firmly, the backs of the hands facing forward.
- (e)
 - (i) Draw the handle and face screen firmly over the face, keeping the head pressed hard against the headrest. It is not necessary to jerk the handle and in no circumstances should the blind be pulled outwards away from the face, as it may not then be possible to fire the cartridge.
 - (ii) When the secondary firing handle is fitted, if conditions of positive G prohibit the use of the primary firing handle, ejection should be initiated by pulling the secondary handle upwards. In this event no protection is given to the face. It is essential that the

PART V—EMERGENCY HANDLING

head is pressed firmly against the headrest to avoid dislocation of the neck on ejection.

- (f) After ejection, the drogue gun will fire automatically.
- (g) If ejection takes place above 10,000 ft. automatic separation will not occur until that height is reached. If ejection takes place at or below 10,000 ft. automatic separation will occur within 3 seconds.
- (h) If the automatic system fails after ejection:—
 - (i) When forward speed is sufficiently low, discard the face screen and disconnect the main oxygen tube from the seat.
 - (ii) Pull the override D-ring to isolate the parachute auto device.
 - (iii) Operate the harness quick release.
 - (iv) Disengage the seat restraining straps.
 - (v) Lift the flap over the rip-cord D-ring and grasp the handle.
 - (vi) Push clear of the seat and pull the rip-cord handle.
- (j) The recommended minimum heights and minimum speeds for safe ejection in straight and level flight are as follows:—

Without G stop	200	200 ft./120 knots
With G stop	100	Ground level/90 knots

Page 110
Para.
112 (j)
A.L.3

113. Ditching

- (a) Model tests of a clean aircraft indicate that a ditching in any but ideal conditions would be very hazardous.
- (b) It is recommended, therefore, that except in calm sea and air conditions combined with good visibility, the pilot should abandon the aircraft rather than attempt a ditching.
- (c) If ditching is inevitable:—
 - (i) Jettison the hood, select 100 per cent oxygen and deflect the emergency toggle sideways.
 - (ii) Lower full flap and make the approach at the lowest forward speed and rate of descent compatible with good control.
 - (iii) Ditch along the swell, or, if the swell is not steep, into wind.

NOTE.—The airbrake must be retracted.

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