

N2770V C-177RG – Emergency Procedures Checklist – ALL SPEEDS MPH IAS

ENGINE FAILURE AFTER TAKE-OFF

Landing gear DOWN IMMEDIATELY
 Airspeed 80 flaps UP, 75 flaps DOWN
 Mixture idle cut-off
 Fuel selector valve off
 Ignition switch off
 Flaps as required (30° recommended)
 Declare emergency (time permitting) 121.5
 Master switch off

ENGINE FAILURE DURING FLIGHT

Airspeed 85
 Fuel selector valve both
 Mixture rich
 Auxiliary fuel pump on
 Ignition switch both (or START)

EMERGENCY LANDING – NO ENGINE POWER

Auxiliary fuel pump off
 Declare emergency 121.5 & 7700
 Airspeed 85 flaps UP, 75 flaps DOWN
 Mixture idle cut-off
 Fuel selector valve off
 Ignition switch off
 Landing gear down

NOTE: Gear UP for rough or soft terrain

Flaps as required (30° recommended)
 Master switch off
 Doors unlatch & lock **open** prior to touchdown
 Touchdown slightly tail low
 Brakes apply heavily

EMERGENCY LANDING WITH ENGINE POWER

Declare emergency 121.5 & 7700
 Flaps 20°
 Landing area fly over at 75
 Avionics switch, A/P, & elec equip off
 Landing gear down

NOTE: Gear UP for rough or soft terrain

Flaps 30° on final approach
 Airspeed 75
 Master switch off
 Doors unlatch & lock **open** prior to touchdown
 Touchdown slightly tail low
 Ignition switch off
 Brakes apply heavily

DITCHING

Declare emergency 121.5 & 7700
 Heavy objects secure or jettison
Plan .. into high wind OR parallel to heavy swells
 Approach gear UP, flaps 20°, 300fpm, 70
 Doors unlatch & lock **open** prior to touchdown
 Folded coats & cushions in front of face
 Touchdown in level attitude, NO FLARE
 Aircraft evacuate
 Life vests & raft inflate outside aircraft

ENGINE FIRE IN FLIGHT

Mixture idle cut-off
 Fuel selector valve off
 Master switch off
 Cabin heat and air off
 Airspeed 100 – 120, faster if necessary
 Forced landing execute

ELECTRICAL FIRE IN FLIGHT

Master switch off
 EXCEPT IGNITION all switches off
 Vents, cabin air, heat closed
 Fire extinguisher activate

IF FIRE IS VERIED EXTINGUISHED:

Master switch on
 Circuit breakers check, do not reset
 Radios & electrical equip on one at a time
 Vents, cabin air, heat open

INADVERTENT FLIGHT IN ICING CONDITIONS

Pitot heat on
 Altitude & course change to find warm OAT
 Left cabin air, heater, defrost on
 Propeller increase RPM

NOTE: Plan to land as soon as possible.

**If ice accumulation is extremely rapid,
 land immediately!**

Ice ¼ inch or more higher stall speed
 Ice 1 inch or less flaps 10° maximum
 Ice more than 1 inch DO NOT use flaps
 Landing approach forward slip (as required)
 Airspeed 85 – 95
 Touchdown in level attitude, NO FLARE

MANUAL LANDING GEAR EXTENSION

Refer to POH/AFM for additional gear malfunctions.

Airspeed 80
 30-amp LDG GEAR circuit breaker pull
 Landing gear lever down
 Lift cover and extend pump handle check
 Pump handle approximately 40 strokes
 Heavy resistance stop pumping
 Verify gear down visually, light, horn
 Gear is confirmed down stow pump handle

GO AROUND

Mixture, Prop, Throttle FULL FORWARD
 Flaps 20° (immediately)
 Positive rate “tap brakes, gear up”
 Flaps “75 mph, flaps 10°”
 1000 feet (or safe alt,) “flaps up, climb checklist”

V _{so} = 57 (57 CAS)	V _a = 130
V _s = 66 (66 CAS)	V _{le} & V _{lo} = 140
V _r = 65 (60 Max Perf.)	V _{fe} = 110 (10° – 30°)
V _x = 70	V _{fe} = 150 (0° – 10°)
V _y = 95	V _{no} = 160
V _{I/d} = 85 → (9.9:1)	V _{ne} = 195

REVISION 1 – 06APR09