ENGINE POWER LOSS – TAKE-OFF ROLL

1. THROTTLE	CLOSED
2. BRAKES	AS REQ
3. FUEL SELECTOR	OFF
4. MAGNETO/STARTER SWITCH	OFF
5. MASTER	OFF

NGINE POWER LOSS - AFTER TAKEOFF 8 **IN FLIGHT**

(RESTART PROCEDURES)

1. AIRSPEED	85 KIAS
2. FUEL SELECTOR	SELECT OTHER TANK
3. FUEL PRESSURE	VERIFY IN GREEN ARC
4. FUEL BOOST PUMP	ON
5. THROTTLE	FULL FORWARD
6. PROPELLER	FULL FORWARD
7. MIXTURE	FULL FORWARD
8. MAGNETO STARTER	VERIFY ON BOTH

IF ENGINE DOES NOT RESTART AFTER INITIAL **ATTEMPTS**

a. MIXTURE.....IDLE CUTOFF (initially) **b. THEN ADVANCE SLOWLY TOWARD RICH UNTIL ENGINE STARTS**

IF ENGINE DOES NOT RESTART

FLIGHT

ESTABLISH BEST GLIDE SPEED AND PROCEED TO FORCED LANDING EMERGENCY

AFTER ENGINE RESTARTS

a. THROTTLE	ADJUST AS REQUIRED	
b. PROPELLER	ADJUST AS REQUIRED	
c. MIXTURE-RE-LEAN A	S POWER IS RESTORED	
d. LAND AS SOON AS PRACTICAL AND		
CORRECT MALFUNCTION PRIOR TO NEXT		

ENGINE FIRE IN FLIGHT

UEL SELECTOR VALVEOFF
HROTTLECLOSED
MIXTURE IDLE CUTOFF
MAGNETO/STARTER SWITCHOFF
CABIN VENTS & HEATING CONTROLSCLOSED
COWL FLAPSCLOSED
.ANDING GEARDOWN or UP depending on
terrain
/ING FLAPS EXTEND as necessary

If fire is not extinguished, attempt to increase airflow over the engine by increasing glide speed and open cowl flaps. Proceed with FORCED LANDING EMERGENCY

ELECTRICAL FIRE IN FLIGHT

(SMOKE IN CABIN)

1. MASTER SWITCH	OFF
(STALL WARNING AND GEAR WARNING ARE NOT AVAILABL	E
WITH MASTER SWITCH OFF)	
2. ALTERNATOR FIELD SWITCH	OFF
3. ALL ELECTRICAL SWITCHES	.OFF
4. CABIN VENTILATIONO	PEN
5. HEATING CONTROLSAS DESIR	RED
6. CIRCUIT BREAKERSCHECK to identify faulty ci	rcuit
if possible.	
If electrical power is essential for the flight, attempt to	
identify and isolate faulty circuit	
a. MASTER SWITCH	NC
b. ALTERNATOR FIELD SWITCH	ON
c. SELECT ESSENTIAL SWITCHES*(NC
*ONE AT A TIME, PERMIT A SHORT TIME TO ELAPS	SE
BEFORE ACTIVATING AN ADDITIONAL CIRCUIT	
7. LAND AS SOON AS POSSIBLE.	

ENGINE FIRE DURING START ON THE GROUND

1. MAGNETO/STARTER SWITCHCONTINUE cranking
If engine starts:

a. POWER......1500RPM for several minutes or until fire is extinguished

If e

unui ille is extin	guisneu
engine does NOT start:	
a. MAGNETO/STARTER SWITCH.	CONTINUE
	CRANKING
b. MIXTURE	IDLE/CUTOFF
c. THROTTLE	FULL FORWARD
d. FUEL SELECTOR VALVE	OFF
e. MAGNETO/STARTER SWITCH.	OFF
f. MASTER SWITCH	OFF
g. EXTINGUISH WITH FIR	RE EXTINGUISHER

HIGH OIL TEMPERATURE

NOTE - PROLONGED HIGH OIL TEMPERATURE INDICATIONS WILL USUALLY BE ACCOMPANIED BY A DROP IN OIL PRESSURE. IF OIL PRESSURE REMAINS NORMAL, THEN A HIGH TEMPERATURE MAY BE CAUSED BY A FAULTY GAUGE OR TEMPERATURE PROBE.

TEIMI ETOTTORE I ROBE.	
1. COWL FLAPS	OPEN
2. AIRSPEED	INCREASE
3. POWER	REDUCE

PREPARE FOR POSSIBLE ENGINE FAILURE IF TEMPERATURE CONTINUES HIGH.

LOW OIL PRESSURE

1. OIL TEMPORATURE AND PRESSURE.....MONITOR

2. PRESSURE BELOW 25 PSI.....EXPECT ENGINE FAILURE

PROCEED TO FORCED LANDING EMERGENCY

4. DOOR.....PULL SHUT & LATCH

FORCED LANDING EMERGENCY	LOW FUEL FLOW
POWER OFF – GEAR RETRACTED OR EXTENDED	1. MIXTURE RICH
1. ELTARM	2. FUEL SELECTOR OPPOSITE (fullest) TANK
2. SEAT BELTS/SHOULDER HARNESSES SECURE	If condition persists, use Fuel Boost Pump as necessary and
3. CABIN DOORUNLATCHED	LANDING SHOULD BE MADE AS SOON AS PRACTICAL.
4. FUEL SELECTOR VALVEOFF	
5. MIXTUREIDLE/CUTOFF	
6. MAGNETO/STARTEROFF	LANDING GEAR FAILURE
7. WING FLAPS	1. AIRSPEED
8. LANDING GEAR DOWN or UP (DEPENDING ON TERRAIN) 9. APPROACH SPEED	2. LANDING GEAR ACTUATOR CIRCUIT BREAKER PULL
10. MASTER SWITCHOFF (PRIOR TO LANDING)	3. GEAR SWITCHDOWN
11. LANDINGLEVEL, TAIL LOW ATTITUDE	4. MANUAL GEAR SWITCH EXTENSION MECHANISM
77. E. 11. E. 11. E. 17. E. 17. E. E	LATCH FORWARD/LEVER BACK
	To engage manual extension mechanism
ENGINE ROUGHNESS	5. T-HANDLE PULL (7-20 times)
1. ENGINE INSTRUMENTSCHECK	and RETURN until gear is down and locked.
2. FUEL SELECTOROTHER TANK	GEAR DOWN light illuminated, STOP when
3. MIXTURE RE-ADJUST FOR	resistance is felt.
SMOOTH OPERATIONS	6. VISUAL GEAR DOWN INDICATONCHECK
4. MAGNETO/STARTERSELECT R OR L OR BOTH	ALIGNMENT
If roughness disappears on single magneto,	7. RETURN LEVER to normal position and secure latch
monitor power and continue on selected magneto	8. RESET LANDING GEAR ACTUATOR C/B
SEE POH for power loss and rough engine WARNINGS 5. THROTTLE	(Warning – do not operate landing gear electrically with manual extension system engaged)
CHECK TO SEE IF A LESSER THROTTLE SETTING CAUSES	manual extension system engaged)
ROUGHNESS TO DECREASE	FAILURE OF LANDING GEAR TO RETRACT
IF SEVERE ENGINE ROUGHNESS CANNOT BE ELIMINATED	TALEGRE OF EARDING GEAR TO RETRACT
LAND AS SOON AS PRACTICABLE.	1. AIRSPEEDBELOW 107 KIAS
	2. GEAR SWITCH UP
PROPELLER OVERSPEED	If gear fails to retract, gear horn – sounding, gear
1. THROTTLERETARD	annunciator lights and gear by-pass light – illuminated
2. OIL PRESSURE	a. GR SAFETY BY PASS SWITCH DEPRESS
3. PROPELLER DECREASE , set if any control	and hold until landing gear fully retracted
available	b. GEAR DOWN and GEAR UNSAFE lights OFF
4. AIRSPEEDREDUCE	c. GEAR RELAYS CIRCUIT BREAKER PULL
5. THROTTLEBELOW 2700 RPM	If gear fails to retract
	d. EMERGENCY GEAR EXTENSION LEVER
ALTERNATOR OVERVOLTAGE	VERIFY LACHED IN PROPER POSITION
Steady voltage warning light and alternator field circuit	e. GEAR RELAY CIRCUIT BREAKER RESET
breaker tripped.	f. WHEN READY TO EXTEND LANDING GEAR
1. AVIONICS MASTER OFF 2. MASTER OFF , THEN ON	airspeedbelow 132KIAS gear relay circuit breakerRESET
3. ALTERNATOR Field Circuit BreakerRESET	gear switch
If circuit breaker will not reset, the following	If gear will not extend electrically – refer to
procedures are required:	LANDING GEAR FAILURE PROCEDURE
ONLY RESET ALTERNATOR FIELD CIRCUIT	
BREAKER ONCE	ALTERNATOR OUTPUT LOW
	Voltage warning light flashing, ammeter showing
	discharge.
OPEN DOOR	1. NON-ESSENTIAL ELECTRICAL EQUIPMENTOFF
1. AIRSPEED	2. LAND, WHEN PRACTICAL, TO CORRECT
2. PILOT'S STORM WINDOWOPEN	•
3. AIRCRAFT RIGHT SIDE-SLIP	

NOTE - INTENTIONAL SPINS PROHIBITED