

# PA34 - 200

## EMERGENCY CHECKLIST MINIMUM CONTROL SPEED (68Kts) INDICATES MEMORY ITEMS

### ENGINE FAILURE DURING TAKE OFF

(BELOW 100MPH)

**Adequate Runway:**  
Throttle CLOSE  
Landing Gear DOWN/3 GREEN  
Stop STRAINING AHEAD

**Inadequate Runway:**  
Throttle AS REQUIRED  
Brakes OFF  
Master Switch OFF  
Magnetos OFF  
Fuel Selectors OFF  
**COMPLETE**

### ENGINE FAILURE DURING TAKEOFF (100 MPH OR ABOVE)

**Adequate Runway:**  
Throttle CLOSE  
Landing Gear DOWN/3 GREEN  
If Airborne LAND  
Stop STRAINING AHEAD

**Inadequate Runway:**  
Heading MAINTAIN  
Air Speed MAINTAIN  
Pitch FOR BLUE LINE  
Wing Flaps RETRACT  
Landing Gear UP  
Inoperative Engine IDENTIFY  
Throttle Inop Engine RETARD/VERIFY

### ENGINE FAILURE IN FLIGHT

Maintain Directional Control/ Airspeed  
Mixtures FORWARD  
Props FORWARD  
Throttles FORWARD  
Wing Flaps RETRACT  
Landing Gear UP  
Fuel Selector Valves ON/CROSSFEED  
Electric Fuel Pumps ON  
Inoperative Engine IDENTIFY  
Throttle Inop Engine RETARD/ VERIFY  
Decide FEATHER OR TROUBLE SHOOT

### FEATHER INOP ENGINE

Throttle Inop Engine RETARD/ VERIFY  
Prop Inop Engine FEATHER BEFORE  
RPM DROPS BELOW 800  
Mixture Inop Engine IDLE CUT OFF  
Trim AS REQUIRED  
Bank Toward Inoperative Engine 5"

Fuel Selector Inop Engine OFF  
Cowl Flap Inop Engine CLOSE  
Cowl Flap Operative Engine AS REQUIRED  
Alternator Inop Engine OFF  
Electric Fuel Pump Inop Engine OFF  
Electric Fuel Pump Operative Engine OFF  
Magnetos Inop Engine OFF  
Electrical Load OFF  
CONSIDER CROSS FEED USE  
CHECKLIST COMPLETE

### TROUBLESHOOT INOP ENGINE

Turn Towards Airport CROSSFEED/ON  
Fuel Selector Valve ON  
Alternate Air RICH  
Mixture ON  
Electric Fuel Pumps CHECK  
Magnetos CHECK  
CHECKLIST COMPLETE  
Throttle 1/2"

### AIR START INOP ENGINE (Unfeathering Procedure)

Fuel Selector Valve ON  
Mixture RICH  
Prop Control FORWARD TO CRUISE POSITION  
Throttle OPEN 1/4" INCH  
Electric Fuel Pump Inop Engine OFF  
Magnetos ON

Starter ENGAGE UNTIL PROP WINDMILLS  
Throttle 15" UNTIL ENGINE IS WARM  
If No start prime and repeat by ON 3 SECOND  
Electric Fuel Pump Inop Engine  
Repeat steps below the line

Alternator ON  
CHECKLIST COMPLETE

### ONE ENGINE INOP LANDING

Inop Engine PROP FEATHERED  
When Field Is Made DOWN  
Landing Gear 25" OR AS REQUIRED  
Flaps 105MPH  
Final Approach Speed COMPLETE  
CHECKLIST

### ONE ENGINE INOP GO-AROUND (AVOID IF POSSIBLE)

Mixture FORWARD  
Prop FORWARD  
Throttle OPEN SLOWLY  
Wing Flaps RETRACT SMOOTHLY  
Landing Gear DOWN  
Airspeed 90 TO 105MPH  
Trims SET  
Cowl Flaps Operative Engine AS REQUIRED  
CHECKLIST COMPLETE

### FIRE DURING ENGINE START

Ignition	CONTINUE CRANKING
If Engine Does Not Start	IDLE CUT OFF
Mixture	FULL
Throttle	CONTINUE CRANKING
Starter	
If Engine Does Start	KEEP RUNNING
Engine	OFF
Fuel Selector Valve	IDLE CUT OFF
Mixture	EXTINGUISH
Fire	COMPLETE

### ENGINE FIRE IN FLIGHT

AFFECTED ENGINE	OFF
Fuel Selector Valve	CLOSE
Throttle	FEATHER
Prop	IDLE CUT OFF
Mixture	OFF
Defroster and Heater	OFF
Fuel Pump	ASAP
Land	COMPLETE

### MANUAL EXTENSION OF GEAR

Circuit Breakers	CHECKED
Master Switch	ON
Alternators	CHECKED
Navigation Lights (daytime)	OFF
Airspeed	BELOW 100MPH
Gear Selector	PULL DOWN
Gear Extension Knob	LEAVE OUT
Gear Extension Knob	COMPLETE

### GYRO SUCTION FAILURE (Suction Below 4.5 in Hg)

RPM	INCREASE TO 2700
Altitude	DESCEND TO MAINTAIN 4.5 IN Hg.
CHECKLIST	COMPLETE

### ELECTRICAL FAILURE

If One Overvoltage Light Illuminates:	OFF
All electrical loads (Expect Master)	OFF
Inop Alternator	ON MOMENTARILY
Inop Alternator	VERIFY EXCESSIVE
Alternator Output	OFF
If Output Is Excessive	RE-ESTABLISH (MAX 50AMPS)
Inop Alternator	
Electrical Load	

### ELECTRICAL LOSS

If Ammeter Shows Loss:	REDUCE CHECK RECYCLE
Electrical Load	
Alternator Circuit Breakers	
Alternator	
If Alternator Outputs Are Not Restored:	Less than 50Amps
Electrical Load	COMPLETE

### HOT START

Master Switch	ON
Anti-collision Light	ON
Mixture	IDLE CUT OFF
Prop	FULL FORWARD
Throttle	OPEN 1/2"
Master	ON
Magnetos	ON
Fuel Pump	OFF
Prop Area	CLEAR
Starter	Engage

### As Engine Starts

Mixture	FULL
Throttle	800-1000RPM
Oil Pressure, Alternator, Suction	CHECK
Mixture	LEAN
CHECKLIST	COMPLETE

### FLOODED START

Master Switch	ON
Anti collision Light	ON
Mixture	IDLE CUT OFF
Prop	FORWARD
Throttle	FULL FORWARD
Master Switch	ON
Magnetos	ON
Fuel Pumps	OFF
Propeller Area	CLEAR
Starter	ENGAGE
When Engine Fires	
Throttle	RETARD
Mixture	ADVANCE SLOWLY

### GEAR UP LANDING

Approach Speed	NORMAL
Wing Flaps	RETRACT
Throttle	CLOSE PRIOR TO TOUCHDOWN
Master Switch	OFF
Magnetos	OFF
Fuel Selector Valves	OFF
Land	MINIMUM AIRSPEED
CHECKLIST	COMPLETE

### PROPELLER OVERSPEED

Throttle	RETARD
Airspeed	90 TO 105MPH
Prop	FULL DECREASE RPM SET IF CONTROL AVAILABLE

AS REQUIRED TO REMAIN BELOW 2700 RPM

Land

ASAP

RETARD

90 TO 105MPH

FULL DECREASE RPM SET IF CONTROL AVAILABLE

AS REQUIRED TO REMAIN BELOW 2700 RPM

Land

ASAP

CHECKED

ON

CHECKED

OFF

BELOW 100MPH

PULL DOWN

LEAVE OUT

COMPLETE

### GYRO SUCTION FAILURE (Suction Below 4.5 in Hg)

INCREASE TO 2700

DESCEND TO MAINTAIN 4.5 IN Hg.

COMPLETE

### ELECTRICAL FAILURE

OFF

OFF

ON MOMENTARILY

VERIFY EXCESSIVE

OFF

RE-ESTABLISH (MAX 50AMPS)

If Both Over Voltage Light Illuminates:

OFF

OFF

ON ONE AT A TIME

ON

OFF

RE-ESTABLISH (MAX 50AMPS)

If Alternator Outputs Are Not Restored

OFF

MINIMIZE

ASAP

COMPLETE

If Ammeter Shows Loss:

REDUCE CHECK RECYCLE

If Alternator Outputs Are Not Restored:

Less than 50Amps

COMPLETE

### HOT START

Master Switch

Anti-collision Light

Mixture

Prop

Throttle

Master

Magnetos

Fuel Pump

Prop Area

Starter

As Engine Starts

Mixture

Throttle

Oil Pressure, Alternator, Suction

Mixture

CHECKLIST

### FLOODED START

Master Switch

Anti collision Light

Mixture

Prop

Throttle

Master Switch

Magnetos

Fuel Pumps

Propeller Area

Starter

When Engine Fires

Throttle

Mixture

Throttle (800-1000RPM)

Oil Pressure Alternator Suction

Mixture

ON

ON

OFF

FORWARD

ON

ON

OFF

CLEAR

ENGAGE

RETARD

ADVANCE SLOWLY

SET

CHECKED

LEAN