

ENGINE PROBLEM ON RUNWAY	LOSS OF FUEL PRESSURE	ENGINE FIRE
THROTTLE - IDLE	FUEL PUMP - ON	ENGINE FIRE ON GROUND
BRAKES - AS REQ. IF TIME ALLOWS:	IF PRESSURE NOT RESTORED, LAND AT SUITABLE AIRPORT	FUEL TANKS - OFF CABIN HEAT - CLOSED
FUEL TANKS - OFF	<b>RESTART ENGINE PROP WINDMILLING</b>	BRAKES - APPLY
MIXTURE - IDLE CUTOFF	AIRSPEED - 80KTS	AFTER STANDSTILL:
IGNITION - OFF	FUEL TANK - FULLEST	THROTTLE - FWD
GEN/BAT Master - OFF	IGNITION - BOTH	ALT/BAT MASTER - OFF
<b>ENGINE PROBLEM AFTER T/O</b>	MIXTURE - CHECK	ENGINE STOPPED:
AIRSPEED - 74KTS	FUEL PUMP - ON	IGNITION - OFF
IF TIME ALLOWS:	ALTERNATE AIR - OPEN	EVACUATE IMMEDIATELY
FUEL TANK - CHECK	MIXTURE - LEAN THEN FWD SLOWLY	<b>ENGINE FIRE IN FLIGHT</b>
FUEL PUMP - ON	IF NO RESTART SEE EMERGENCY LANDING	CABIN HEAT - CLOSED
IGNITION - BOTH		SELECT FIELD AND CERTAIN WILL REACH:
THROTTLE - FULL	<b>RESTART ENGINE PROP STOPPED</b>	FUEL TANKS - OFF
RPM - HIGH	AIRSPEED - 80KTS	THROTTLE - FWD
MIXTURE - RICH	ELECTRICAL EQUIPMENT - OFF	FUEL PUMP - OFF
ALTERNATE AIR - OPEN	AVIONICS MASTER - OFF	ALT/BAT MASTER - ON
PROBLEM PERSISTS:	BAT MASTER - ON	EMERGENCY WINDOWS - OPEN
EXECUTE EMERGENCY LANDING	MIXTURE - CHECK	EXTREME SMOKE - CANOPY UNLATCH
<b>ENGINE PROBLEM DURING FLIGHT</b>	FUEL TANK - CHECK	PERFORM EMERGENCY LANDING
<b>ENGINE ROUGH</b>	FUEL PUMP - ON	<b>ELECTRICAL FIRE AND SMOKE</b>
AIRSPEED - 76KTS	ALTERNATE AIR - OPEN	<b>ELECTRICAL FIRE &amp; SMOKE ON GROUND</b>
FUEL PUMP - ON	IGNITION - START (AIRSPEED ABOVE 130KTS SHOULD START PROP ROTATION, SET IGNITION TO BOTH)	ALT/BAT MASTER - OFF
FUEL TANK - CHECK		ENGINE RUNNING:
ENGINE INSTRUMENTS - CHECK		THROTTLE - IDLE
THROTTLE - CHECK		MIXTURE - CUTOFF
RPM - CHECK	IF NO RESTART SEE EMERGENCY LANDING	ENGINE STOPPED:
MIXTURE - CHECK		IGNITION - OFF
ALTERNATE AIR - OPEN	<b>EMERGENCY LANDING</b>	EVACUATE IMMEDIATELY
IGNITION STATUS LIGHT - CHECK	<b>GLIDING</b>	<b>ELECTRICAL FIRE &amp; SMOKE IN FLIGHT</b>
IGNITION - BOTH	FLAPS - UP	EMERGENCY SWITCH - ON
IGNITION CIRCUIT BREAKER - PULL (IF IMPROVES, LEAVE OUT)	AIRSPEED - 76KTS	ALT/BAT MASTER - OFF
	<b>EMERGENCY LANDING</b>	CABIN HEAT - CLOSED
THROTTLE/RPM/MIXTURE - TRY VARIOUS SETTINGS	SEATS- UPRIGHT BEST PLACE TO LAND	EMERGENCY WINDOWS - OPEN
NO IMPROVEMENT:	AIRSPEED - 76KTS	EXTREME SMOKE - CANOPY UNLATCH
EXECUTE EMERGENCY LANDING	DECLARE EMERGENCY	LAND AS SOON AS POSSIBLE
<b>LOSS OF OIL PRESSURE</b>	FUEL TANK - OFF	<b>ALTERNATOR FAILURE</b>
OIL/CHT TEMP - CHECK	FLAPS - LDG	CIRCUIT BREAKERS - CHECK
OIL/CHT TEMP NORMAL:	SEAT BELTS - TIGHTEN	IF DOESN'T COME BACK ON:
LAND AS SOON AS PRACTICAL	IGNITION - OFF	ESSENTIAL BUS - ON
OIL/CHT TEMP RISING:	ALT/BAT MASTER - OFF	
REDUCE POWER TO MIN REQ AND PREP FOR ENGINE FAIL	TOUCHDOWN LOWEST POSSIBLE AIRSPEED	<b>FOR ALL OTHER EMERGENCIES SEE SECTION 3 OF THE AFM</b>

DIAMOND DA 40 Abbreviated Checklist. For Elaborated Checklist refer to the AFM	
PREFLIGHT- CABIN	PREFLIGHT - EXTERIOR
KEY'S - ACCESSIBLE/OFF/OUT	LEFT WING - INSPECT
AIRCRAFT DOCUMENTS - CHECK	RIGHT WING- INSPECT
FLIGHT CONTROLS - CHECK	STRUT - CHECK
FRONT/REAR DOOR - CHECK	FLAP - INSPECT
ELECTRICAL SWITCHES - OFF	TIRE/WHEEL/BRAKE - CHECK
CIRCUIT BREAKERS - IN	AILERON - INSPECT
THROTTLE - IDLE	CHOCKS - REMOVE
MIXTURE - CUTOFF	ENTIRE WING - INSPECT
RPM LEVER - (FWD)	STEP - INSPECT
BATTERY MASTER - ON	AIR INTAKE - CLEAR
ANNUNCIATOR PANEL- VERIFY	FUEL TANK SUMP - DRAIN
FUEL QTY - CHECK	FUEL QTY - CHECK
NAV/STROBES - CHECK	STRUT - CHECK
LANDING LIGHT - CHECK	STALL WARNING - CHECK
FLAPS - FULL DOWN	PITOT STATIC MAST - INSPECT
BATTERY MASTER - OFF	TIE DOWN - REMOVED
FOREIGN OBJECTS - CLEARED	LIGHTS - INSPECT
FIRE EXTINGUISHER - CHECK	AILERON - INSPECT
RESCUE HAMMER - CHECK	FLAP - INSPECT
BAGGAGE - STOWED	<b>FUSELAGE - INSPECT</b>
CANOPY - CLEAN	CANOPY
	REAR DOOR
	SKIN
	ANTENNAS
	<b>EMPELLAGE - INSPECT</b>
	STABILIZERS - CHECK
	RUDDER/ELEVATOR/HINGES - CHK
	TRIM TABS - INSPECT
	TIE DOWN - REMOVED
	TAIL SKID/LOWER FIN - INSPECT
	<b>V SPEEDS</b>
	VR - 59
	VX - 67 ----- VY - 67
	VG - 76 (8.8:1 Glide Ratio)
	VS0 - 52 ----- VS - 53
	VFE T/O - 108 – VFE LDG- 91
	Va - 108
	VNO - 129 ----- VNE - 178
	MAX CROSSWIND - 20KTS
	SUGESTED VREF - 70-75KTS
<b>INFORMATION</b>	
Max Gross Weight- 2646 lbs	KOZW CTAF - 123.0
KPTK ATIS - 125.025	KOZW AWOS - 118.875
KPTK Tower - 120.5	KOZW Fuel Truck - (517)861-9088
KPTK Ground - 121.9	KOZW AWOS - (517)546-4450



*Your wings are waiting.*  
**CROSSWINDS  
AVIATION**

517-552-1101  
Version: 4/23/2018  
**Diamond DA-40**

BEFORE START	BEFORE TAXI
TOW BAR - REMOVED	AVIONICS MASTER - ON
PREFLIGHT INSPECTION - COMPLETE	ELECTRICAL EQUIPMENT - AS REQUIRED
PASSENGER BRIEF - COMPLETE	FLAPS - RETRACT CHECK DETENTS
SEAT BELTS, AIR VENTS, FIRE EXTINGUISHER, EXITS, TRAFFIC/TALKING, YOUR QUESTIONS?	AVIONICS DATABASE - CHECK
	ATIS - OBTAIN
PEDALS & SEAT BELTS - FASTENED	ALTIMETERS - SET CROSSCHECK
REAR DOOR - LOCKED	GPS - ENTER WPT/FPL/APR
FRONT CANOPY - LOCKED	CDI GPS/VLOC - AS REQUIRED
BRAKES - SET	FUEL TANKS - SWITCH
THROTTLE - IDLE	PITOT HEAT - CHECK
RPM LEVER - HIGH (FWD)	TRANSPONDER - SET
MIXTURE - CUTOFF	<b>TAXI</b>
ALT AIR- CLOSED	AIRPORT DIAGRAM - AVAILABLE
AVIONICS MASTER - OFF	TAXI CLEARANCE - OBTAIN/BRIEF
ESSENTIAL BUS SWITCH - OFF	LIGHTS - AS REQUIRED
BAT MASTER - ON	BRAKES - CHECK
STROBE LIGHTS - ON	FLIGHT INSTRUMENTS - CHECK
KEY IN IGNITION	<b>RUN-UP</b>
<b>ENGINE START</b>	BRAKES - HOLD
TOE BRAKES - HOLD	DOORS - SECURE
PROPELLER - CLEAR VERBALLY	FUEL TANK - FULLEST
ELECTRONIC IGNITION SWITCH (EIS) - ON/FWD	ENGINE INSTRUMENTS - CHECK
<b>COLD</b>	CIRCUIT BREAKERS - CHECK
FUEL PUMP - ON	FUEL PUMP - ON
THROTTLE - FWD 1"	MIXTURE - RICH
MIXTURE - RICH 3-5 SEC	THROTTLE - 2000 RPM
MIXTURE - CUTOFF	PROP - CYCLE 3 TIMES, MAX 500RPM
<b>WARM</b>	MAG/EIS - CHECK: -EIS - OFF-CHK-ON -MAG - L-CHECK-BOTH (MAX DROPS: EIS 200RPM, LMAG 50RPM)
FUEL PUMP - OFF	
THROTTLE - FWD 1"	
MIXTURE - CUTOFF	
IGNITION - START 5 SEC MAX	CIRCUIT BREAKERS - CHECK
MIXTURE- FULL RICH UPON START	VOLTMETER - CHECK
<b>WHEN ENGINE STARTS</b>	THROTTLE - IDLE
THROTTLE - 1000 RPM	ALTERNATE AIR - CLOSED
OIL PRESSURE - CHECK	PITOT HEAT - AS REQUIRED
FUEL PUMP - OFF	
ALT MASTER - ON	
AMMETER - CHECK	
FUEL PRESSURE - CHECK	
ANNUNCIATORS - CHECK	

PRE-TAKEOFF	BEFORE LANDING
TAKEOFF BRIEF - COMPLETE	SEAT BELTS - FASTENED
FLIGHT CONTROLS - FREE, FULL, AND CORRECT	MIXTURE - RICH
TRIM - SET NEUTRAL	PROP - FULL
FLIGHT INSTRUMENTS - SET	FLAPS - SET
FUEL PUMP - ON	LIGHTS - AS REQ
FLAPS - T/O	<b>GO AROUND / MISSED APP</b>
DEPARTURE BRIEF - COMPLETE	THROTTLE - FULL
MIXTURE - BEST POWER	PITCH - UP FOR V <sub>x</sub> CLIMB
BELTS - FASTENED	FLAPS - RETRACT TO T/O
<b>LINE UP ITEMS</b>	AFTER T/O CHECK
PROPER FREQUENCY - CHECK	<b>AFTER LANDING</b>
TRANSPONDER - CODE & ALT	FLAPS - CRUISE
CANOPY VENTS - SECURE	FUEL PUMP - ON
LIGHTS - AS REQUIRED	PITOT HEAT - OFF
STROBE LIGHT - ON	AVIONICS- AS REQUIRED
TAKEOFF BRIEF - COMPLETE	LIGHTS - AS REQUIRED
<b>CLIMB</b>	TAXI CLEARANCE - OBTAIN
THROTTLE/PROP - SET (25"/24, OR PER POH)	<b>SHUTDOWN</b>
FLAPS - UP	PARKING BRAKE - AS REQ
CRUISE CLIMB - 76 KIAS	TRANSPONDER - 1200
ENGINE INSTRUMENTS - CHECK	AVIONICS MASTER - OFF
<b>CRUISE</b>	THROTTLE - 1000 RPM
THROTTLE/PROP - SET (23"/23, OR PER POH)	FUEL PUMP - OFF
FUEL PUMP - OFF (ON HIGH ALTS)	ELECTRICAL SWITCHES - OFF
ENGINE INSTRUMENTS - CHECK	MIXTURE - CUTOFF
LANDING LIGHT - OFF	IGNITION - OFF
MIXTURE - LEAN AS REQ	BATTERY MASTER - OFF
FUEL TANK - PROPER TANK	
<b>DESCENT AND APPROACH</b>	<b>POST FLIGHT</b>
ATIS/AWOS - OBTAIN	KEYS - REMOVED
ALTIMETERS - SET BOTH / CROSSCHECK	CANOPY VENTS - CLOSE
AIRPORT DIAGRAM - OUT	CONTROLS - SECURE
MIXTURE - RICH (SLOWLY, AS REQ)	TACH / HOBBS TIME - RECORD
FUEL PUMP - ON	INTERIOR - CHECK CONDITION
FUEL TANK - FULLEST	EXTERIOR - CHECK CONDITION
PROP - 1800-2400 RPM	MOVE PLANE TO APPROPRIATE POSITION
THROTTLE - AS REQUIRED	TIE DOWN / CHOCK - SECURE
INSTRUMENTS - SET / IDENT	KEYS - IN BOX
APPROACH BRIEF - COMPLETE	
RADIO CALLS - AS REQ	