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PA28-161 QRH V3.0 MAY 2021

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NORMAL CHECKLIST & PROCEDURE

PRE-FLIGHT CHECK

1. AS PER POH AND CAR SCHEDULE 5

BEFORE STARTING ENGINE

1.	PRE-FLIGHT INSPECTION	COMPLETE
2.	POH & MR	COMPLETE & ONBOARD
3.	W&B, T/O & LANDING CHARTS	COMPLETE & ONBOARD
4.	SEATS, BELTS, SHOULDER HARNESS	LOCK FASTEN & ADJUST
5.	FUEL SELECTOR	LEFT OR LEAST
6.	PARK BRAKE	SET ON
7.	ELEVATOR TRIMCHECK TRAVEL	, THEN SET FOR NEUTRAL
8.	CIRCUIT BREAKERS	CHECK IN
9.	ALTERNATE STATIC	OFF
10.	FLIGHT INSTRUMENTS	NO BREAKAGE
11.	RADIOS, ELECTRICAL EQUIPMENT	OFF
12.	EXTERNAL LIGHTS	AS DESIRED
13.	CARBURETTOR HEAT	FULL OFF

ENGINE START (COLD)

		• •
1.	MIXTURE	FULL RICH
2.	THROTTLE	1/4 INCH OPEN
3.	BATTERY MASTER & AL	TERNATORON
4.	ELECTRIC FUEL PUMP	ON & CHECK FUEL PRESSURE
5.	PRIME	HOLD FOR 5 SECS
6.	PROPELLER AREA	CLEAR
7.	STARTER	ENGAGE
	(CRANK THE ENGIN	IE NO MORE THAN 10 SECONDS)
8.	THROTTLE	SET 1000 RPM
9.	OIL PRESSURE	CHECK GREEN WITHIN 30 SECS

ENGINE START (HOT)

		2	
1.	MIXTURE		FULL RICH
2.	THROTTLE		1/2 INCH OPEN
3.	BATTERY MAS	TER & ALTERNATOR	ON
4.	ELECTRIC FUE	_ PUMPON & CI	HECK FUEL PRESSURE
5.	PROPELLER AF	REA	CLEAR
6.	STARTER		ENGAGE
	(CRANK T	HE ENGINE NO MORE THAN	10 SECONDS)
7.	THROTTLE		SET 1000RPM
8.	OIL PRESSURE	CHECK GR	REEN WITHIN 30 SECS

ENGINE START (FLOODED)

1.	MIXTURE	IDLE CUT-OFF
2.	THROTTLE	FULL OPEN
3.	BATTERY MASTER & ALTERNAT	ORON
4.	ELECTRIC FUEL PUMP	OFF
5.	PROPELLER AREA	CLEAR
6.	STARTER	ENGAGE
	(CRANK THE ENGINE NO M	ORE THAN 10 SECONDS)
7.	MIXTURE	ADVANCE TO FULL RICH
8.	THROTTLE	RETARD & SET 1000 RPM
9.	OIL PRESSURE	CHECK GREEN WITHIN 30 SECS

ENGINE START (EXTERNAL POWER)

1.	BATTERY MASTER & ALTERNATOR	ROFF
2.	ALL ELECTRICAL EQUIPMENT	OFF
3.	TERMINALS	CONNECT
4.	EXTERNAL POWER PLUG	INSERT IN FUSELAGE
(C	CONTINUE WITH NORMAL START	WITH BATT/ALT SWITCH OFF)
5.	THROTTLE	LOWEST POSSBILE RPM
6.	EXTERNAL POWER PLUG	DISCONNECT FROM FUSELAGE
7.	BATTERY MASTER SWITCH & ALTI	ERNATORON
8.	OIL PRESSURE	CHECK GREEN WITHIN 30 SECS

AFTER START

1.	POWER	SET 1000 RPM
2.	OIL PRESSURE	CHECK GREEN WITHIN 30 SECS.
3.	AMMETER	POSITIVE LOAD
4.	SUCTION	INDICATING
5.	ELECTRIC FUEL PUN	ΛΡOFF
6.	FUEL PRESSURE	CHECK
7.	AVIONICS	ON & ADJUST
8.	FREQUENCY	SET

TAXI

1.	BRAKES/STEERING	CHECK
2.	DI & COMPASS	NUMBERS INCREASE OR DECREASE
3.	TURN CO-ORDINATOR	SKID LEFT OR RIGHT
4.	ATTITUDE INDICATOR	WINGS LEVEL
5.	NAVAIDS	TRACKING

ENGINE RUN-UP

1.	POSITION		PARK INTO WIND
2.	PARK BRAKE		SET ON
3.	THROTTLE		1000 RPM
4.	OIL PRESSURE		GREEN
5.	FUEL SELECTOR		RIGHT OR FULLEST TANK
6.	THROTTLE		2000 RPM
	(CON	FIRM AIRCRAFT NOT N	MOVING)
7.			ALL IN GREEN
8.	AMMETER		POSITIVE CHARGE
9.	SUCTION GAUGE.		5.0" HG
10	. MAGNETOS		CHECK
	(MAX D	ROP 150 RPM/MAX DI	FF 50 RPM)
11	. CARBURETTOR H	EAT OPE	RATE/CHECK RPM DROP
12	. ANNUNCIATOR P	ANEL	PRESS TO TEST
13	. THROTTLE	IDLE	CHECK RPM ABOVE 600
14	THROTTLE		SFT 1000 RPM

BEFORE TAKE-OFF

1.	FUEL SELECTOR	FULLEST TANK
2.	FUEL CONTENTS	SUFFICIENT
3.	ENGINE INSTRUMENTS	WITH IN GREEN RANGE
4.	FLIGHT INSTRUMENT, RADIOS & NAVA	IDSCHECK & SET
5.	BATTERY MASTER AND ALTERNATOR	ON
6.	ELECTRIC FUEL PUMP	ON
7.	CIRCUIT BREAKERS	IN
8.	PRIMER	LOCKED
9.	MAGNETOS	BOTH
10	. MIXTURE	SET
	. THROTTLE FRICTION	
	. CARBURETTOR HEAT	
13	. FLAPS	TEST THEN SET 0
14	. TRIM	SET NEUTRAL
15	. CABIN DOORS	CLOSED AND LATCHED
16	. SEATS	ADJUST, ERECT & SECURE
17	. HARNESSES	FASTENED & SECURE
18	. FLIGHT CONTROLS	ULL, FREE AND CORRECT
19	. DEPARTURE BRIEF & SAFETY BRIEF	COMPLETED
20	. PARK BRAKE	RELEASE

LINE-UP CHECK

1.	PITOT HEAT	AS REQUIRED
	INSTRUMENTS	
	SWITCHES	
4.	TRANSPONDER	CODE AND ALT SET
	DI/COMPASS	

ROLLING CHECK

1.	RPM	STATIC
2.	ENGINE INSTRUMENTS	GREEN
3.	AIRSPEED	ALIVE AND INCREASING

AFTER TAKE OFF CHECK

1.	POWER	SET
2.	CARBURETTOR HEAT	OFF
3.	ENGINE INSTRUMENTS	GREEN
4.	FLAPS	RETRACTED
5.	LIGHTS	SET
6.	AIRSPEED	79 KTS

TOP OF CLIMB CHECK

	POWER	
2.	MIXTURE	SET
3.	FUEL PUMP	OFF
4.	LIGHTS	SET
5.	DI & COMPASS	ALIGNMENT CHECKED
6.	FUELCH	IECKED AND LOGGED
7.	QNH	SET
	FREQUENCY	

CRUISE CHECK

1.	COMPASS & DI	ALIGNED
2.	LOG	COMPLETE
3.	ENGINE	GREEN, MIXTURE LEAN
4.	ALTITUDE	CHECK
5.	RADIOS	SET
6.	ORIENTATION	CHECK
	FUEL	
8.	FORCED LANDING AREA	CONSIDER

DESCENT & APPROACH CHECK

1.	FUEL	FULLEST TANK
2.	MIXTURE	FULL RICH
3.	QNH	SET
4.	ALTITUDE	CHECK
5.	DI & COMPASS	ALIGNED
6.	FREQUENCY	SET

PRE-LANDING CHECK

1.	BRAKE	CHECK PRESSURE
2.	UNDERCARRIAGE	FIXED
3.	MIXTURE	SET
4.	FUELS	UFFICIENT, PUMP ON
5.	INSTRUMENTS	GREEN
6.	SWITCHES	AS REQURIED
7.	HATCHES & HARNESSES	ADJUSTED & LOCKED

FINAL CHECK

1.	FLAPS	SET
2.	CARBURETTOR HEAT	OFF
3.	CLEARANCE	OBTAINED

AFTER LANDING CHECK

1.	RUNWAY	VACATE
2.	STROBES/LANDING LIGHTS	OFF
3.	ELECTRIC FUEL PUMP	OFF
4.	CARBURETTOR HEAT	OFF
5.	FLAPS	RETRACTED
6.	TRIM	SET NEUTRAL
7.	TRANSPONDER	STANDBY

PARKING AND SHUT DOWN CHECK

1.	PARKING BRAKE	SET
2.	THROTTLE	1000 RPM
3.	LIGHTS	OFF
4.	AVIONICS	OFF
5.	MAGNETOS	CHECK
6.	MIXTUREII	DLE CUT OFF
7.	THROTTLE	AFT
8.	MAGNETOS OF	F & KEY OUT
9.	BATTERY MASTER & ALTERNATOR	OFF
10	. ALL SWITCHES	OFF

AFTER SHUT DOWN CHECK

1.	PARKING BRAKE	OFF
2.	AVIONICS	OFF
3.	MAGNETOS	OFF
4.	MIXTURE	IDLE CUT OFF
5.	THROTTLE	CLOSED
	BATTERY MASTER & ALTERNATOR	

POST FLIGHT

1.	AIRCRAFT LOG SHEET	COMPLETED
2.	SEATS	ADJUSTED
3.	CABIN	RUBBISH REMOVED
4.	CONTROLS	SECURED
5.	SEAT BELTS	DRESSED
6.	PARK BRAKE	OFF
7.	DOORS & WINDOWS	CLOSED
8.	FUEL	CHECKED
9.	LOCKS/CHOCKS/TIE DOWNS	SECURE

DEPARTURE BRIEFING (M)

♦	AIRPORT & ATIS/TAF	REVIEW
	SIGNIFICANT ENVIRONMENTAL FACTORS	
•	A/C TAKE-OFF DATA & SPEED	REVIEW
•	NORMAL DEPARTURE PROCEDURE	REVIEW
•	MALFUNCTION OR EMERGENCY	REVIEW ACTIONS

PRE-TAKEOFF SAFETY BRIEFING (M)

- ◆ IF THE ENGINE FAILS ON THE RUNWAY, I WILL CLOSE THE THROTTLE AND APPLY BRAKING AS REQUIRED TO STOP IN A STRAIGHT LINE.
- ◆ IF THE ENGINE FAILS AFTER TAKE-OFF WITH RUNWAY REMAINING, I WILL CLOSE THE THROTTLE, LOWER THE NOSE AND LAND ON THE AVAILABLE SURFACE IN A STRAIGHT LINE.
- ◆ IF ENGINE FAILS WITH NO RUNWAY REMAINING, BELOW 300FT I WILL CLOSE THE THROTTLE ADOPT A 73KIAS GLIDE, SELECT A FIELD WITHIN 30° EITHER SIDE OF THE NOSE AND CARRY OUT THE EMERGENCY SHUTDOWN CHECKS IF TIME PERMITS
- ◆ IF THE ENGINE FAILS ABOVE 300FT I WILL CHOOSE A FIELD 60° EITHER SIDE OF THE NOSE AND ATTEMPT TO RESTART THE ENGINE IF TIME PERMITS.
- ◆ I WILL NOT TURN BACK FOR THE RUNWAY UNLESS I'M AT OR ABOVE 1000FT OR ESTABLISHED ON DOWNWIND

PASSENGER BRIEFING (M)

DISCUSS

- ◆ LOCATION OF ENTRY & EXIT POINTS OF AIRCRAFT FOR NORMAL AND EMERGENCY OPERATIONS
- HOW TO OPEN AND CLOSE MAIN DOOR
- SEAT ADJUSTMENT
- SEAT BELT USAGE: TAXI, TURBULENCE, TAKE-OFF, LDG AND PILOT REQUIRED
- ◆ STOWAGE OF LOOSE ITEMS
- ◆ VENTILATION OUTLETS AND CONTROLS
- EMERGENCY EQUIPMENT & HOW TO USE (FIRE EXTINGUISHER ETC.)
- NO SMOKING POLICY
- ◆ FLIGHT DETAILS (I.E. ETA DESTINATION, BASIC ROUTE DETAILS ETC.)

PASSENGER SAFETY BRIEFING (M)

WE HAVE HAD AN EMERGENCY, WE WILL BE LANDING AT
LOCATION, REMOVE ALL SHARP OBJECTS, DENTURES AND GLASSES.
STORE ALL LOOSE ITEMS AND ASSUME THE BRACE POSITION. YOUR
EXIT IS AND WE WILL ASSEMBLE BEHIND THE AEROPLANE
AFTER LANDING

EMERGENCY PROCEDURE

ENGINE FIRE DURING START CHECK

1.	STARTER	CONTINUE TO CRANK ENGINE
2.	MIXTURE	IDLE CUT-OFF
3.	THROTTLE	OPEN
4.	ELECTRIC FUEL PUMP	OFF
		OFF
6.	ABANDON	IF FIRE CONTINUES

FIRE IN FLIGHT CHECK

1.	SOURCE OF FIRE	CHECK
ELE	ECTRICAL FIRE (SMOKE IN CABIN)	
1.	BATTERY MASTER SWITCH & ALTERNATOR	SWITCH OFF
2.	CABIN VENTS	OPEN
3.	CABIN HEAT	OFF
	LAND AS SOON AS PRACTICA	BLE
EN	GINE FIRE	
4.	FUEL SELECTOR	OFF
1.	THROTTLE	
2.	MIXTURE	
3.	ELECTRIC FUEL PUMP	OFF
4.	HEATER	OFF
5.	DEFROSTER	OFF
	PROCEED WITH POWER OFF LANDIN	G PROCEDURE

CARBURETTOR ICING

1.	CARBURETTOR HEAT	ON
2.	MIXTURE	ADJUST FOR SMOOTHNESS

EMERGENCY ENGINE SHUTDOWN

	FUEL SELECTOR	
2.	MIXTUREI	DLE CUT OFF
3.	MAGNETOS	OFF
4.	BATTERY MASTER & ALTERNATOR	OFF
5.	SEAT BELTS	TIGHT
6.	PASSENGERS BRA	CE POSITION

EMERGENCY RESTART

1.	CARBURETTOR HEAT	ON
2.	MIXTURE	FULL RICH
3.	ELECTRIC FUEL PUMP	ON
4.	FUEL SELECTOR	FULLEST TANK
5.	PRIMER	IN & LOCKED
6.	IGNITION & MAGNETORS	CHECK/BOTH/START
(IF POWER RESTORED)		
7.	CARBURETTOR HEAT	OFF
8.	FUEL PUMP	OFF, CHECK PRESSURE
(IF POWER NOT REGAINED, PROCEED WITH POWER OFF LANDING)		

LOSS OF OIL PRESSURE

1.	OIL PRESSURE GAUGE	CORSS CHECKED	
2.	OIL TEMPERATURE	CHECKED	
3.	POWER REDI	JCED TO MINIMUM	
4.	ANTICIPATE ENGINE FAILURE IN FLIGHT		
	LAND AS SOON AS POSSIBLE		

LOSS OF FUEL PRESSURE

1.	ELECTRIC FUEL PUMP	ON
2.	FUEL SELECTORFULI	LEST TANK

ENGINE OIL TEMPERATURE HIGH

1	OIL PRESSURE	CHECK
2.	AIRSPEED	INCREASE
3.	POWER	REDUCE
4.	ANTICIPATE ENGINE FAILURE IN FLIGHT	
	LAND AS SOON AS POSSBILE	

OPEN DOOR IN FLIGHT

1.	AIRSPEED	REDUCE TO 89 KTS
2.	CABIN VENTS	CLOSE
	STORM WINDOW	
4.	DOOR	LATCH

ENGINE ROUGHNESS

1.	CARBURETTOR HEAT	ON
2.	PRIMER	IN & LOCKED
3.	CARBURETTOR HEAT	OFF
4.	MIXTURE	ADJUST FOR MAX SMOOTHNESS
5.	FUEL SELECTOR	CHANGE TANKS
6.	ENGINE INSTRUMENTS	CHECK
7.	MAGNETO SWITCH	CHECK LEFT/RIGHT/BOTH
8.	FUEL PUMP	ON
9.	CONSIDER LANDING	

FORCED LANDING PROCEDURE

IM	IMMEDIATE MEMORY ACTIONS			
1.	CONTROL THE AIRCRAFT & ESTABLISH THE GLIDE73 KTS			
2.	FIRE & SMOKECHECK			
3.	EMERGENCY RESTART INITIAL ACTIONSATTEMPT			
TR	DUBLE SHOOT			
♦	CARBURETTOR HEATON			
♦	FUEL SELECTOR CHECK			
♦	MIXTURE CONTROLOPERATE THROUGH RANGE			
♦	OIL CHECK GREEN			
♦	SWITCHMAGNETOS CHECK			
♦	THROTTLEOPERATE THROUGHT RANGE			
SA	ETY CHECK (WHEN COMMITTED TO FORCED LANDING)			
♦	PAX / SAFETY BRIEFING CONDUCT IF TIME PERMITS			
♦	HARNESSESSECURE			
•	EMERGENCY ENGINE SHUTDOWNEXECUTE			

ELECTRICAL FAILURE PROCEDURE

AMMETER TO	ALT ANNUNCIATOR LIGHT ILLUMINATED. CHECK A	1.
	VERIFY INOP ALT	
SWITCH OFF	AMMETER IF AMMETER READS 0, SELECT ALT	2.
O MINIMUM	ELECTRICAL LOADREDUCE T	3.
K AND RESET	ALT CIRCUIT BREAKER CHEC	4.
ON	ALTERNATOR SWITCH	5.
	UNSUCCESSFUL (IF POWER NOT RESTORED)	IF I
OFF	ALTERNATOR SWITCH	6.
TO MINMUM	FLECTRICAL LOADREDUCE	7.

FAILURE

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ELECRICAL OVERLOAD PROCEDURE

SPIN RECOVERY

LAND AS SOON AS POSSIBLE. ANTICIPATE COMPLETE ELECTRICAL

1.	AILERONSNEUTRAL
2.	THROTTLEIDLE
	SPIN DIRECTIONCHECK
4.	RUDDER FULL OPPOSITE TO DIRECTION OF ROTATION
5.	CONTROL COLUMNEASE BACK AS REQUIRED
	TO SMOOTHLY REGAIN LEVEL FLIGHT ALTITUDE.

POST LOSS OF CONTROL PROCEDURE

1.	SAFETY ALTITUDE	CONFIRM & CLIMB IF REQ
2.	AIRFRAME	CHECK FOR DAMAGE
3.	FLAPS	CONFIRM UP – NO DAMAGE
4.	ENGINE INSTRUMENTS	CHECKED
5.	ORIENTATION	POSITION CHECKED & DI ALIGNED

AIRCRAFT TYPE INFORMATION

ENGINE & SYSTEMS

1. POWER PLANT
ENGINE TYPE4 CYLINDER NATRUALLY ASPIRATED
ENGINE MANUFACTURERLYCOMING O-320-D3G
MAX POWER OUTPUT160 BHP @2700 RPM MSL/ISA
TAKE-OFF & MAXCONT. POWERFULL THROTTLE / 2700 RPM
RPM LIMITATIONS2700 RPM RED LINE
FUEL CONSUMPTION RATE @ 65% POWER35 L/HR
2. FUEL SYSTEM & SPECIFICATIONS
MINIMUM GRADEAVGAS 100 OR 100LL
STANDARD TANKS(USABLE)182 LTS
a properties
3. PROPELLER
NUMBER OF BLADESTWO
TYPE
STATIC RPM (MSA/ISA)2350 RPM MIN – 2450 RPM MAX
4. OIL SYSTEM & SPECIFICATIONS
OIL QUANTITYMIN 5 QTS MAX 8 QTS
OIL GRADESAE-50
OIL TEMP/GREEN ARC
OIL TEMP/RED LINE245°F
· · · · · · · · · · · · · · · · · · ·
MIN OIL TEMP TAKE-OFF
OIL PRESSURE/GREEN ARC
OIL PRESSURE/YELLOW ARC (IDLE RPM)25-55 PSI
OIL PRESSURE/YELLOW ARC (GROUND WARM-UP)95-115 PSI
OIL PRESSURE/RED LINE (MIN)25 PSI
OIL PRESSURE/RED LINE (MAX)115 PSI

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5. ELECTRICAL SYSTEM ALTERNATOR
6. SUCTION/VACUUM RANGE NORMAL OPERATING RANGE4.8" TO 5.2" HG
7. UNDERCARRIAGE
MAIN GEAR STRUTOIL - AIR OLEO/EXTENSION 4.5"
MAIN GEAR WHEELS24 PSI INFALTION
NOSE GEAR STRUTOIL – AIR OLEO/EXTENSION 3.25"
NOSE GEAR WHEEL30 PSI INFLATION

AIRSPEEDS

1. VNE 160 KIAS 2. VNO 126 KIAS 3. VA (@1109KG GW) 111 KIAS 4. VA (@695KG GW) 88 KIAS 5. VFE 103 KIAS 6. VR 60 KIAS 7. VTOSS 63 KIAS 8. VY 79 KIAS 9. VX 63 KIAS 10. MAX GLIDE 73 KIAS 11. MAX DEMONSTRATED XW 17 KIAS 12. VS (0 DEGREES FLAP) 50 KTS 13. VSO (40 DEGREES FLAP) 44 KTS			
3. VA (@1109KG GW) 111 KIAS 4. VA (@695KG GW) 88 KIAS 5. VFE 103 KIAS 6. VR 60 KIAS 7. VTOSS 63 KIAS 8. VY 79 KIAS 9. VX 63 KIAS 10. MAX GLIDE 73 KIAS 11. MAX DEMONSTRATED XW 17 KIAS 12. VS (0 DEGREES FLAP) 50 KTS	1.		160 KIAS
4. VA (@695KG GW) 88 KIAS 5. VFE 103 KIAS 6. VR 60 KIAS 7. VTOSS 63 KIAS 8. VY 79 KIAS 9. VX 63 KIAS 10. MAX GLIDE 73 KIAS 11. MAX DEMONSTRATED XW 17 KIAS 12. VS (0 DEGREES FLAP) 50 KTS	2.	VNO	126 KIAS
5. VFE 103 KIAS 6. VR 60 KIAS 7. VTOSS 63 KIAS 8. VY 79 KIAS 9. VX 63 KIAS 10. MAX GLIDE 73 KIAS 11. MAX DEMONSTRATED XW 17 KIAS 12. VS (0 DEGREES FLAP) 50 KTS	3.	VA (@1109KG GW)	111 KIAS
6. VR	4.	VA (@695KG GW)	88 KIAS
7. VTOSS	5.	VFE	103 KIAS
8. VY	6.	VR	60 KIAS
9. VX	7.	VTOSS	63 KIAS
10. MAX GLIDE	8.	VY	79 KIAS
11. MAX DEMONSTRATED XW	9.	VX	63 KIAS
12. VS (0 DEGREES FLAP)50 KTS	10	MAX GLIDE	73 KIAS
·	11	MAX DEMONSTRATED XW	17 KIAS
13. VSO (40 DEGREES FLAP)44 KTS	12	. VS (0 DEGREES FLAP)	50 KTS
	13	VSO (40 DEGREES FLAP)	44 KTS

WEIGHT & LOAD LIMITS

AIF	RCRAFT WEIGHTS GENERAL	
1.	MAX RAMP WIGHT	1112 KG
2.	MAX TAKE-OFF WEIGHT	1110 KG
3.	MAX BAGGAGE	90 KG
MA	ANOEUVRE LOAD FACTOR	
1.	MAX NORMAL CATEGORY	+3.8 g
2.	MAX UTILITY CATEGORY	+4.4 g
NE	EGATIVE MANOEUVRE LOAD FACTOR	
1.	MAX	0.0 g
	NO INVERTED MANOEUVRES APPROVED	
	AP LIMITATION	
2.	APPROVED TAKE-OFF	0-25
3.	APPROVED LANDING	0-40

POWER SETTING TABLE

PRESS.ALT. FEET	TEMP.STD. ALT °C	55% POWER	65% POWER M	75% POWER
S. L	15			
1000	13			
2000	11	2250	2400	2525
3000	9			
4000	7	2300	2450	2600
5000	5			
6000	3	2350	2500	2640
7000	1			
8000	-1	2475	2550	2700
9000	-3			
10000	-5	2425	2600	N/A