LEG#1:	Goderi	ch YG	Elev:			2.7 Dep	tPt-DIST: 7	TIME: 4	<mark>-</mark> сн: 35	4
Port A	lbert	MP / RPM: 2	300	5 / 1	O & Land Time	ALT: 5	500	IAS:	9	,
Wnd Aal	WIND	WIND	OAT -7	EN ROU DIST / TIME=		20	120	10	Enter new GS in Rvsd GS-box	
(TT)MT	DIR	SPD	TAS	ΤH	МН	DIST	GS	TIME	СН	1
026	285	<i>15</i>	102	018	028	58	104	34	030	Calc
WCA			Spd Cor	Cps Var +10	A/C Dev +2		120	29	035	Rvsd
ENG 17 ON: 17	:48 Z	ENG OFF: 18	:35 Z	DEPT 18	:00 Z	ETA: 18	:34 Z	ATA: 18	:29 Z	

DEPARTURE SECTION

The example information provided is NOT intended for navigational purposes. This guide is for reference only.

This flight planner is designed for ease of use and understanding. Information is concentrated only in the areas where it is needed and it is in a compact foldable knee board format. Most of the flight planner sections are in the same format that you have been familiar to. Use the Departure side for your takeoff, establish course and to revise heading and time to destination. Use the Destination side when you get close to your landing site or waypoint. Use the middle section from TT to CH across for the initial calculation, the upper and lower DIST to CH section are for the revised calculations.

En Route: Calculate actual ground speed

In the en route section during your flight, enter the distance to a known point along the flight path that you have selected and the time it took to get there. Use your flight computer or E6-B to calculate ground speed. Then enter the revised ground speed in the Rvsd section and from the total distance, calculate Time. Example: 10 min for 20 NM=120 knots GS, then enter below 58NM at 120 knots=29 min, Rvsd flight time.

While on route, establish engine RPM and altitude, then determine from IAS if your ground speed maybe different than planned.

You can incorporate or separate your climb time into your flight to departure point time.

Notes:			Total Leg & Departure Poir	nt Time	
			Total Climb,Taxi,T/O & Lan	nd Time	
			TOTAL TIME		
FD Wind	3000 Ft	6000 Ft	9000 Ft		12000 Ft
<i>17-21</i> Z	Dir/Spd/Temp	Dir / Spd / Temp	Dir / Spd / Temp	Dir /	Spd / Temp
Wiart	270,14	290,16,-9	290,28,-14	27	70,38,-17
Tor	280,12	290,17,-8	280,30,-11	27	70,44,-14

PILLING Flight Planner V1.0 Canada Not for Resale, Free for All Pilots for Copy and Use, By Anthony Pilling

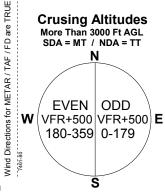
> D	istance,	Time and	l Headi	ng to Yo	our Departure Po	int	
Airport / Waypoint	Wiar	ton Y	VV	Radio Freq	122.2	Aprt Elev	729
ATIS,PRO NOTAMs	Rwy	05/23	3 Clo	sed -	Air Show	Grnd Time	
Runways / Nav Aids	Rwy	05/23	8 & 1	1/27,	NDBs/w 32	26, VO	R 117·7
MET/TAF	Wind Dir	Wind Spd	Visibility	Precip	Cloud	Temp/Dew	Alt Set
Wiart	265	10	<i>15</i>	None	Few 6500	4/-3	30.34

DESTINATION SECTION

The Destination section of each leg is used for landing purposes or way point position (VOR, NDB or landmark can be used). Also supplied Is a quick reference chart below for cross wind component and cruising altitudes.

En Route: Calculate off course intercept

Choose one of the course correction methods. (If more than half way use the Open and Close Method) For this example use the Double Track Method. Note the time traveled and enter it in the Flytime box. Enter your off course angle and multiply it by 2. Enter your original compass heading. Add or subtract the closing angle from the compass heading. To turn right to intercept your course, add your closing angle to the compass heading. To turn left to intercept your course, subtract your closing angle from the compass heading. Turn your aircraft on the intercept course and fly for the same amount of time as you have flown during your off course flight time. Enter your original compass heading and add or subtract the original off course angle for revised compass heading and enter the value in your Rvsd flight leg Departure section. If you prefer in the course correction methods write "L" for left turn and "R" for right turn beside each value. For the most part these calculations can be performed in your head, the boxes are intended to keep track of your information.



Off Co	ourse Corr	ection	M	ethods	
Open &	Close Angle	Doub	ole	Track	
	ond Half	Off Crs Angle	X2	<i>5</i> °	L
	Point Use Method	Closing Angle	=	10°	R
Off Crs		СН	+	030	
Angle Closing		Intercept Course	=	040	
Angle	т	FlyTime (Equal)	1	<i>O</i> min	
	=	СН		030	
СН	_ +	Off Crs Angle	+	<i>5</i> °	R
Revised C H	=	Revised C H	=	035	

Wind	Cross Wind Component									
Angle	10 Kt	20 Kt	30 Kt	40 Kt						
10<	2	3	5	7						
20<	3	7	10	14						
30<	5	10	15	20						
40<	6	13	19	26						
50<	8	15	23	31						
60<	9	17	26	35						
70<	9	19	28	38						
>08	10	20	30	39						
90<	10	20	30	40						

LEG#1:	Goderi		Elev:		Freq: 12	2.7 Dep	tPt-DIST: 7	7 TIME: 4	⁴ сн: 35	4
Port A	lbert	MP / RPM: 2	300	5 / 1		ALT: 5	500	IAS: 5	9	
Wnd Aal	WIND	WIND	OAT -7	EN ROU DIST / TIME=		20	120	10	Enter new GS in Rvsd GS-box	
(TT)MT	DIR	SPD	TAS	ΤH	МН	DIST	GS	TIME	СН	
026	285	<i>15</i>	102	018	028	<i>58</i>	104	34	030	Calc
WCA			Spd Cor	Cps Var +10	A/C Dev +2		120	29	035	Rvsd
ENG 17 ON: 17	:48 Z	ENG 18 OFF: 18	:35 Z	DEPT 18	:00 Z	ETA: 18	:34 Z	ATA: 18	:29 Z	
LEG#2:	Wiarto	n YVV	Elev:	729	Freq: 12	2.2 Dep	tPt-DIST: 12	2 TIME: 6	сн: 14	0
Departure Point		MD /		Climb / Taxi, T	O & Land Time					

	Wiarto	n YVV	Elev:	729	Freq: 12	2.2 Dep	tPt-DIST: 12	TIME: 6	сн: 14 (0
Owen .	Sound	MP / RPM: 2	300	3 / 1	0 & Land Time 0 min	ALT: 5	500	IAS: 9	9	
Wnd 148	WIND	WIND	OAT	EN ROU DIST / TIME=					Enter new GS in Rvsd GS-box	
TT(MT)	DIR	SPD	TAS	ΤH	МН	DIST	GS	TIME	CH	
147	295	<i>15</i>	102		<i>151</i>	67	115	34	152	Calc
WCA +4	mag		Cor +/3	Cps Var	A/C Dev +1					Rvsd
ENG ON: 19	9:45 Z	ENG OFF: 20):40 Z	DEPT TIME: 20):00 Z	ETA: 20	0:34 Z	ATA: 20):34 Z	

Diversion:

You can calculate diversions the way you were trained with or use the chart on side 2 or just use the chart to verify.

Determine your course (magnetic or true) and distance on your map. Use the upper wind information in the FD section or your own observations for wind speed and direction (magnetic or true).

Calculate for left or right wind angle by the difference between true track and true wind or magnetic track and magnetic wind depending on your choice. Look on the chart on page #2 for wind correction angle and speed correction and enter in the fields (you might have to calculate in between values on the chart for your application, on example Page#3).

Subtract or add wind correction angle and speed corrections, depending on positive or negative values and enter in TH box for True values or MH box for magnetic values and complete the rest of flight plan for the leg.

If you use true track and wind directions for diversions, don't forget to adjust for compass variation for your heading indicator and compass rose on your map.

Notes:			Total Leg & Departure Poir	nt Time	1:18
	Add 1 hr	for ground time -	Total Climb,Taxi,T/O & Lar	1:28	
			TOTAL TIME		2:46
FD Wind	3000 Ft	6000 Ft	9000 Ft		12000 Ft
<i>17-21</i> Z	Dir/Spd/Temp	Dir / Spd / Temp	Dir / Spd / Temp	Dir /	Spd / Temp
Wiart	270,14	290,16,-9	290,28,-14	27	70,38,-17
Tor	280,12	290,17,-8	280,30,-11	27	70,44,-14

PILLING Flight Planner V1.0 Canada Not for Resale, Free for All Pilots for Copy and Use, By Anthony Pilling

LEG#1 D	<u>estinatio</u>	n					
Airport / Waypoint	Wiar	ton Y	VV	Radio Freq	122-2	Aprt Elev	729
ATIS,PRO NOTAMs	Rwy	05/23	3 Clo	sed -	Air Show	Grnd Time	/ 40
Runways / Nav Aids	Rwy	05/23	3 & 1	1/27,	NDBs/w 32	26, VO	R 117·7
MET/TAF	Wind Dir	Wind Spd	Visibility	Precip	Cloud	Temp/Dew	Alt Set
Wiart	265	10	15	None	Few 6500	4/-3	30.34
LEG#2 D	estinatio	<u> </u>					

LEG#2 D	estinatio	n					
Airport / Waypoint	Bram	pton	NC3	Radio Freq	<i>123·3</i>	Aprt Elev	935
ATIS,PRO NOTAMs	Circu	it Hgt	- 170	00 AS	iL	Grnd Time	Stop
Runways / Nav Aids	Rwy 7.	5/33	08/2	26, VO	OR TOR 112.	.1 <mark>5-</mark> 310	0%12 nm
MET/TAF	Wind Dir	Wind Spd	Visibility	Precip	Cloud	Temp/Dew	Alt Set
TOR	275	8	<i>15</i> m	None	Sct 6500	4/-3	30.32

TIPS:

- •In the Departure section ENG ON and ENG OFF, you can enter the actual time (either local or UTC), the Hobbs meter or start a timer from zero. It can also be actual time or planned time, your choice.
- •Departure and arrival time can be local or UTC or a timer set from zero.
- •Departure time should be the actual time you start your leg from either the airport or departure point.
- •ATA can either be the revised ETA or the actual leg time completed.
- •If you are not conducting a flight to a departure point, disregard those entries.
- •The total leg times box times can be entered with or without stops depending on you preference.
- •More information of the leg times can be entered in the Flight Plan / Itinerary section.
- •If you require more information about your first departure airport on LEG#1, just leave the Departure section blank and fill out the LEG#1 Destination section. Then use LEG#2 as your first Leg.
- •If you want alternate airports, leave the next Departure section blank and fill out the information in the Destination section on the next leg.
- •If more space is needed for airport information, just use the next leg Destination section for additional information.
- If you use different pen or pencil colors, it will seem less congested and easier to follow
- •Other unused boxes in each section can be used for additional information.
- •For weather in the Destination section enter the TAF, METAR, PIREP, Weather Channel, WX Radio or other reliable source in the airport section depending on your needs and available information.
- •FD weather information depending on your preference, enter multiple locations for the same time or multiple times for the same location.
- •Print on both sides of the paper to keep the planner on one sheet.
- •If you find this 8 ½ X 11 sheet too small, either print to a larger size of paper or increase the scale and print the Departure side and the Destination side on separate sheets of paper.

TAS	115 (+	or – 2	25) KT	TAS 115 (+ or – 25) KT Airspeed Range										
Wind	10 KT	Wind	20 KT	Wind	30 KT	Wind								
Angle	WCA	Spd Cor	WCA	Spd Cor	WCA	Spd Cor								
0<	0	-10	0	-20	0	-30								
10<	1	-10	2	-20	3	-30								
20<	2	-9	3	-19	5	-29								
30<	2	-9	5	-18	7	-27								
40<	3	-8	6	-16	10	-25								
50<	4	-7	8	-14	12	-22								
60<	4	-5	9	-11	13	-18								
70<	5	-4	9	-8	14	-14								
80<	5	-2	10	-5	15	-9								
90<	5	0	10	-2	15	-4								
100<	5	+1	10	+2	15	+1								
110<	5	+3	9	+5	14	+7								
120<	4	+5	9	+9	13	+12								
130<	4	+6	8	+12	12	+17								
140<	3	+7	6	+15	10	+21								
150<	(2)	(+9)	(5)	(+17)	7	+25								
160<	2	+	3	+19	5	+28								
170<	1	+10	2	+20	3	+29								
180<	0	+10	0	+20	0	+30								
Use		e or Magne		iding and V		ions								

You can also study the WCA / Speed Correction chart to get a better understanding of your cross wind flight characteristics and the patterns.

Calculate pressure altitude and density altitude to obtain A/C performance data from your POH. The negative and positive values must be maintained. Pressure and density altitude are general and not exact calculations. If you use a flight computer or altitude setting in your aircraft, you can just record them in the last boxes of the

calculations.

Pres/Density Alt Std P 29.92 Pres - 30·34 = -.42 1000 = -420 Alt + 5500 P Alt = 5080 OAT -7 4 Std T --11 = 120 Χ = -1320 P Alt + 5080 D Alt = 3760

Wind angle is the angle between true track or magnetic track and of left or right true or magnetic wind direction. Use the chart for various airspeeds but wind correction angle and ground speed accuracy deceases as deviation from 115 KT increases. In the diversion example page 2:

(Wind Angle of 148° and Wind Speed of 15 KT), the above wind angle of 150° is used and a WCA of 4° and a speed correction of 13 KT is determined. For wind speeds above 30 KT, just divide the wind speed by 2, then use that number to find corrections on the chart. Then multiply them by 2 to find the approximate WCA & Speed correction.

To calculate the remaining A/C range at the same altitude and flight conditions, subtract the total fuel from A/C usable fuel and divide by the fuel rate and subtract 20%.

`	Admpi	c page	,				,
	FUEL	Leg 1	Leç	2	Leg 3	Leg 4	
	TIME						
	FUEL RATE						
	SUB TOTAL						
	Taxi T/O Land						
	Climb / Dep Pt						
	Reserve						
	TOTAL						
	+ 20 %						
	A/C Fuel Usable:			Tota Fue			

FLIGHT PLAN / Check box reminders for opening and closing your flight as well as the station and phone number or frequency of your preferred contact. Just scan / copy the completed flight planner when you leave your iting rank with a responsible person.					
	leave your i G TIME CIFIC IDENTIFICATION	ORIGINATOR	CONTACT / STAT	TION & PHONE / FREQ	
3 MESSAGE TYPE 7 AIRCRAFT IDENTIFICATION 8 FLIGHT RULES TYPE OF FLIGHT					
9 NUMBER TYPE OF AIRCRAFT WAKE TURB. CAT. 10 EQUIPMENT					
3 DEPARTURE AERODROME TIME					
15 <u>CR</u>	UISING SPEED AL	TITUDE RC	UTE		
AEROI	INATION TOTAL DROME DAY H		AR ALTN MIN AERODRO	2ND ALTN ME AERODROME	
E/	RVIVAL EQUIP POLAR DESERT P D	PERSONS ON BOARD MARITIME JUNGLE M CAPACITY COVE	J / L		
D A/	D / C AIRCRAFT COLOUR AND MARKINGS WHEELS SEAPLANE SKIS AMPHIBIAN				
REMARKS N / AN ARRIVAL REPORT WILL BE FILED WITH:					
NAME AND PHONE NUM OR ADDRESS OF PERSONS TO BE NOTIFIED IF SAR INITIATED					
	OT-IN-COMMAND		PILOT'S LICENCE NO.		
C/	A/C TAKEOFF DIST		A/C LANDING DIST		
	Grnd Roll / IAS	50 Ft Obs / IAS	Grnd Roll / IAS	50 Ft Obs / IAS	
Leg 1					
Leg 2					
Leg 3					
Leg 4					