Diamond Xtreme N638TT

PREFLIGHT (abbreviated list)	BEFORE TAXI
=>Canopy Lever NEVER Past Vertical Master SwitchesBOTH UP Fuel Quantity (20 usable)Sufficient Master SwitchesBOTH DOWN Check Circuit Breakers IN except Vario Check MAIN PINS IN & Controls Free FuelDIP & DRAIN	Fuel PumpOFF during Taxi Altimeter SET, DG SET (if not soaring) TransponderSelect ALT /1200 COM freq KPAN122.8 GPSSet course or route Trimappropriate for wind Parking BrakeRELEASE
Tires	Check Toe Brakes on First Taxi When clear of obstacles make taxi call
*Maps *Headsets on pegs *GPS	RUNUP BEFORE TAKE-OFF
*Water *Pre-adjust Seatbelts Record	Parking BrakeSET Oil Temp verify>50 C (Green)
Preflight Walk-around Completed	Cowl FlapsOPEN
BEFORE STARTING ENGINE	Throttle1600 RPM
Rudder pedalsAdjust gently	Mag Check: (drop 50-150 rpm +/-50)
BeltsFasten ControlsFree and Correct	Carb Heat CheckON then OFF (Manifold press shows slight drop)
Parking BrakeSET	Accumulator Button Press/Charge 6s
GPS-Com, XPDR, Vario CBOFF	Throttle
Anti-Collision Light (ACL)ON	Prop Spd Control Cyclex3 for 100 drop
STARTING ENGINE	Throttle reduce to idle 1000 RPM
Fuel ValveOPEN	→ FLOW CHECKLIST
Master Switches	Fuel PumpON Check all annunciator lights + gauges Verify COM freq 122.8 & XPNDR 1200 Cowl FlapsVerify Forward Verify ChokeOFF Prop Spd ControlForward TrimNeutral Apply pressure to toe brakes then Parking BrakePUSH OFF SPOILERS CYCLE then full FORWARD CanopyVERIFY Locked R & L Side WindowsCLOSE TAKEOFF Clearance or Call Traffic on Base or Final TAKE-OFF RECORD TIME OFF:
Nav/Com ON Vol at 11, Enter x 5 Horizon (mini-GA EFIS) ON and Accept VARIO CB	SPOILERS LOCKED FORWARD Check

914 Turbo **N638TT**

Airspeedabove 52 KTS (Vx) Best Rate of Climb (Vy)59 KTS =>AT 500 ft AGL: Reduce RPM by Prop Speed ControlTop of Green Throttle Adjust to 32 inches mp Fuel PumpAS REQUIRED Monitor OIL TEMP&PRESSURE/CHT Climb max speed/\$ or drag → 76 KTS CRUISE Fuel PumpOFF Cowl Flaps partly CLOSE (if OAT cold) LANDING APPROACH/DOWNWIND COWl Flaps OPEN (rotate 90 degrees and Push to OPEN, rotate 90 to lock) ThrottleREDUCE to 20" for pattern Trim for level flight airspeed of 65 KTS SeatbeltsTIGHT POWER	CLIMB	INFLIGHT ENGINE SHUTDOWN
Best Rate of Climb (Vy)	Airspeedabove 52 KTS (Vx)	Safe glide (14:1) is 2.5-3 mi/1000' APL
Prop Speed ControlTop of Green Throttle Adjust to 32 inches mp Fuel Pump	Best Rate of Climb (Vy)59 KTS	
Throttle Adjust to 32 inches mp Fuel Pump	==>AT 500 ft AGL: Reduce RPM by	Throttle gradually decrease to IDLE
Fuel PumpAS REQUIRED Monitor OIL TEMP&PRESSURE/CHT Climb max speed/\$ or drag → 76 KTS CRUISE Fuel Pump	Prop Speed ControlTop of Green	Allow turbo to cool down for 2 minutes
Monitor OIL TEMP&PRESSURE/CHT Climb max speed/\$ or drag → 76 KTS CRUISE Fuel Pump		
Climb max speed/\$ or drag → 76 KTS CRUISE Fuel Pump	Fuel PumpAS REQUIRED	
Fuel Pump	Monitor OIL TEMP&PRESSURE/CHT	
Fuel Pump. OFF Cowl Flaps partly CLOSE (if OAT cold) LANDING APPROACH/DOWNWIND Cowl Flaps OPEN (rotate 90 degrees and Push to OPEN, rotate 90 to lock) Throttle	Climb max speed/\$ or drag → 76 KTS	Transponder1202 Code Glider
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Cowl Flaps OPEN (rotate 90 degrees and Push to OPEN, rotate 90 to lock) Throttle		
ThrottleREDUCE to 20" for pattern Trim for level flight airspeed of 65 KTS Seatbelts		
Trim for level flight airspeed of 65 KTS Seatbelts	Cowl Flaps OPEN (rotate 90 degrees	
Trim for level flight airspeed of 65 KTS Seatbelts	and Push to OPEN, rotate 90 to lock)	
Seatbelts		
POWERidle abeam aim point PITCHtrim for 57 kts + ½ Max GUST (this gives flattest glide into HW) (usually two clicks back on pitch trim) Fuel PUMP		
Check (this gives flattest glide into HW) (usually two clicks back on pitch trim) Fuel PUMP PROP Speed ControlForward AIRCRAFT PARKING SHUT-DOWN Parking Brake-SET Throttle (2 min or oil < 85C)1000 RPM Turn everything OFF in this order: Fuel Pump, Gyros, GFS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Waster SwitchesOFF V-SPEEDS @ Gross Weight Vs 42 no spoilers 44 spoilers out Best angle (Vx) & Min SINK: 52 KTS BEST GLIDE SPEED 57 KTS Vy (1063 fpm max @ SL)59 KTS Cruise Climb 1.316*58→ 76 KTS V-Speeds decrease a bit when solo! SPEEDS TO FLY IN SINK* Vario Speed to Fly (Kts,SL) @10K Vario Speed to Fly (Kts,SL) @10K Vario Speed to Fly (
(this gives flattest glide into HW) (usually two clicks back on pitch trim) Fuel PUMP	the contraction of the contracti	
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Throttle Increase when Oil Temp>50C PROP Speed Control		
AIRCRAFT PARKING SHUT-DOWN Parking Brake-SET Throttle (2 min or oil < 85C)1000 RPM Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master SwitchesOFF V-SPEEDS @ Gross Weight Vs 42 no spoilers 44 spoilers out Best angle (Vx) & Min SINK: 52 KTS BEST GLIDE SPEED 57 KTS (27:1) Vy (1063 fpm max @ SL)59 KTS Cruise Climb 1.316*58→ 76 KTS Maneuvering speed (Va)95 KTS V-Speeds decrease a bit when solo! SPEEDS TO FLY IN SINK* Vario Speed to Fly (Kts,SL) @10K O 52 * If a HW, -2 56 add ½ 48 -4 66 headwind 57 -6 74 to these 64 -8 80 speeds 69 CHARGE ACCUMULATOR push 6 sec Prop Speed Control Cycle 3X at 2000 Cowl Flaps as Required Transponder1200 Code VFR Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel Pump		
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Master Switches OFF V-SPEEDS @ Gross Weight Throttle Cloke ON if Cold Vs 42 no spoilers 44 spoilers out Best angle (Vx) & Min SINK: 52 KTS Cloke ON if Cold Best angle (Vx) & Min SINK: 52 KTS Digition SwitchSTART expect rough BEST GLIDE SPEED 57 KTS (27:1) Cloke ON if Cold Up (1063 fpm max @ SL)59 KTS Cruise Climb 1.316*58 → 76 KTS IAS FUEL CONSUMPTION @10K MSL Maneuvering speed (Va)95 KTS Vne 141 KTS decreases with Altitude MAXIMUM CROSSWIND16 KTS V-Speeds decrease a bit when solo! SPEEDS TO FLY IN SINK* Max climb 5' (TO pwr= 8.7gph)=1 gallon LOADING LIMITATIONS (See POH) Max Gross Weight=1698# EW=1260# Use Load 438# (p+gas+bags(26#max)) Min solo pilot mass: 121# Payload 312# with full fuel (21g/126#) Payload 375# with half tanks (10.5 gal) Payload 375# with half tanks (10.5 gal) DN IDE	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP
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0 52 * If a HW, Max Gross Weight=1698# EW=1260# -2 56 add ½ 48 Use Load 438# (p+gas+bags(26#max)) -4 66 headwind 57 Min solo pilot mass: 121# -6 74 to these 64 Payload 312# with full fuel (21g/126#) -8 80 speeds 69 Payload 375# with half tanks (10.5 gal)	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master Switches	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel PumpON Prop speed controlFORWARD ThrottleIDLE ChokeON if Cold Ignition SwitchSTART expect rough Oil Pressure Verify GREEN within 10 s. Fuel Pump & ChokeOFF IAS FUEL CONSUMPTION @10K MSL 105 Max 34"/2265 7.1gph 123kts 17 nmpg 101 90% 32"/2200 6.3gph 118kts 19 nmpg 95 75% 30"/2060 5.3gph 111kts 21 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 82 55% 27"/1780 3.3gph ~95kts 29 nmpg
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-4 66 headwind 57 Min solo pilot mass: 121# -6 74 to these 64 Payload 312# with full fuel (21g/126#) -8 80 speeds 69 Payload 375# with half tanks (10.5 gal)	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master Switches	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel PumpON Prop speed controlFORWARD ThrottleDLE ChokeON if Cold Ignition SwitchSTART expect rough Oil Pressure Verify GREEN within 10 s. Fuel Pump & ChokeOFF IAS FUEL CONSUMPTION @10K MSL 105 Max 34"/2265 7.1gph 123kts 17 nmpg 101 90% 32"/2200 6.3gph 118kts 19 nmpg 95 75% 30"/2060 5.3gph 111kts 21 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 89 55% 27"/1780 3.3gph ~95kts 29 nmpg Max climb 5' (TO pwr= 8.7gph)=1 gallon LOADING LIMITATIONS (See POH)
-4 66 headwind 57 Min solo pilot mass: 121# -6 74 to these 64 Payload 312# with full fuel (21g/126#) -8 80 speeds 69 Payload 375# with half tanks (10.5 gal)	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master Switches	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel PumpON Prop speed controlFORWARD ThrottleIDLE ChokeON if Cold Ignition SwitchSTART expect rough Oil Pressure Verify GREEN within 10 s. Fuel Pump & ChokeOFF IAS FUEL CONSUMPTION @10K MSL 105 Max 34*/2265 7.1gph 123kts 17 nmpg 101 90% 32*/2200 6.3gph 118kts 19 nmpg 95 75% 30*/2060 5.3gph 111kts 21 nmpg 95 75% 30*/2000 4.5gph 103kts 23 nmpg 88 60% 28*/2000 4.5gph 103kts 23 nmpg 88 60% 28*/2000 4.5gph 103kts 29 nmpg Max climb 5' (TO pwr= 8.7gph)=1 gallon LOADING LIMITATIONS (See POH) Max Gross Weight=1698# EW=1260#
-8 80 speeds 69 Payload 375# with half tanks (10.5 gal)	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master Switches	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel PumpON Prop speed controlFORWARD Throttle
	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master Switches	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel PumpON Prop speed controlFORWARD ThrottleIDLE ChokeON if Cold Ignition SwitchSTART expect rough Oil Pressure Verify GREEN within 10 s. Fuel Pump & ChokeOFF IAS FUEL CONSUMPTION @10K MSL 105 Max 34"/2265 7.1gph 123kts 17 nmpg 101 90% 32"/2200 6.3gph 118kts 19 nmpg 95 75% 30"/2060 5.3gph 111kts 21 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 80% 28"/2000 4.5gph 103kts 29 nmpg Max climb 5' (TO pwr= 8.7gph)=1 gallon LOADING LIMITATIONS (See POH) Max Gross Weight=1698# EW=1260# Use Load 438# (p+gas+bags(26#max)) Min solo pilot mass: 121#
RM Hustead/Sky King Soaring LLC 15 April 2017	Turn everything OFF in this order: Fuel Pump, Gyros, GPS-Com, XPNDR Vario CB PULL. Vario Battery Down/OFF IGNITION KEY-one or two clicks for 3 sec Then IGNITION OFF Master Switches	Emergency-Prop STUCK Feathered Verify Master SwitchesBOTH UP Fuel PumpON Prop speed controlFORWARD ThrottleDLE ChokeON if Cold Ignition SwitchSTART expect rough Oil Pressure Verify GREEN within 10 s. Fuel Pump & ChokeOFF IAS FUEL CONSUMPTION @10K MSL 105 Max 34"/2265 7.1gph 123kts 17 nmpg 95 75% 30"/2200 6.3gph 118kts 19 nmpg 95 75% 30"/2260 5.3gph 111kts 21 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 88 60% 28"/2000 4.5gph 103kts 23 nmpg 82 55% 27"/1780 3.3gph ~95kts 29 nmpg Max climb 5" (TO pwr= 8.7gph)=1 gallon LOADING LIMITATIONS (See POH) Max Gross Weight=1698# EW=1260# Use Load 438# (p+gas+bags(26#max)) Min solo pilot mass: 121# Payload 312# with full fuel (21g/126#)
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