



# Bonanza Pilot Proficiency Program (BPPP)

**San Diego  
Flying Club**



**Ken Campbell**

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# Outline

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- **BPPP Background**
- **Weekend Schedule**
- **Topics Covered**
- **Some Key Take-Aways**
- **‘Huston, we’ve got a problem...’**
- **Wrap-Up**



## **Background**

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- **BPPP Program established 1983**
  - **Objective is aviation safety & pilot proficiency**
  - **Widely recognized as outstanding weekend course**
    - **Excellent instructors – knowledgeable and effective communicators**
  - **Three tracks:**
    - **Initial - First time attendees**
    - **Recurrent - Returning pilots**
    - **Companion course (\$165)**
  - **Ground school and flight sessions**
  - **Cost \$1295 plus lodging, some meals included**



# Over 50 Beechcraft Planes Attended

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## Schedule and Topics

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**Friday - 9 am to 6 pm, din 7:30**

**Saturday – 8 am to 6:30 pm**

**Sunday – 8 am – 1 pm**

**16 - 1 hour classroom sessions  
(tag team style)**

**~4 hours flying with Instructor**

- **By the Numbers**
- **Fuel Systems**
- **Human Factors & Safety**
- **Maneuver Gust**
- **Electrical System**
- **Emergency Procedures**
- **Weight & Balance**
- **POH & Speed Sheet**
- **Group Walkaround**
- **Maintenance Issues**
- **Current Pilot Issues**
- **GPS for IFR**
- **FAR Game Show**



# Maintenance Issues Discussion

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# Walk-Around Discussions

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## **Some Classroom Take-Aways**

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- **Power = MP X RPM**
  - **1" MP change = 100 fpm change**
  - **Putting gear down = 500 fpm descent**
  - **Our IO-550 has mixture altitude compensation**
  - **Night VFR only in the US**
  - **Garmin 530 – must manually sequence between Arrival and IAP portions of active flight plan**





## **In-Air Highlights**

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- **Slow flight maneuvering**
- **Cabin door opens on rotation**
- **Emergency descents**
- **Engine out procedures**
- **Milking Fuel – 20” MP, 1900 rpm = 8 gph, 120 KIAS**
- **Instrument approaches**
- **More IPC, BFR, etc**



# Bonanza Door Latch Operation

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**Latch plate at top of cabin entry. The screw on the right adjusts the inward/outward position of the latch. The roller pin can be relocated left/right.**



**Latching hook at top of cabin door. There is also a pin at the bottom of the door.**



# What's Wrong With This Picture?

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# Bonanza Fuel Pump Installation and Checkout

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TABLE 10. ALTITUDE FUEL SCHEDULE

IO-550-B ENGINE FULL OPEN THROTTLE, FULL RICH MIXTURE 300 BHP @ 2700 RPM						
Pressure Altitude (Set Altimeter at 29.92 in. Hg.)	Fuel Flow (lbs/hr)		Fuel Flow (gals/hr)		Metered Fuel Pressure PSID	
	Min.	Max.	Min.	Max.	Min.	Max.
Sea Level	146	156	24.9	26.6	17.2	18.3
1000	145.5	155.5	24.8	26.5	17.1	18.2
2,000	145	155	24.7	26.4	17.0	18.1
3000	144	154	24.5	26.3	16.9	17.9
4,000	142	152	24.2	25.9	16.5	17.5
5000	139	149	23.7	25.4	16.1	17.0
6,000	135.5	145.5	23.1	24.8	15.5	16.5
8,000	127	137	21.6	23.3	14.2	15.1
10,000	117	127	19.9	21.6	12.8	13.6
12,000	110	120	18.7	20.4	11.9	12.6
14,000	105	115	17.9	19.6	11.3	11.9

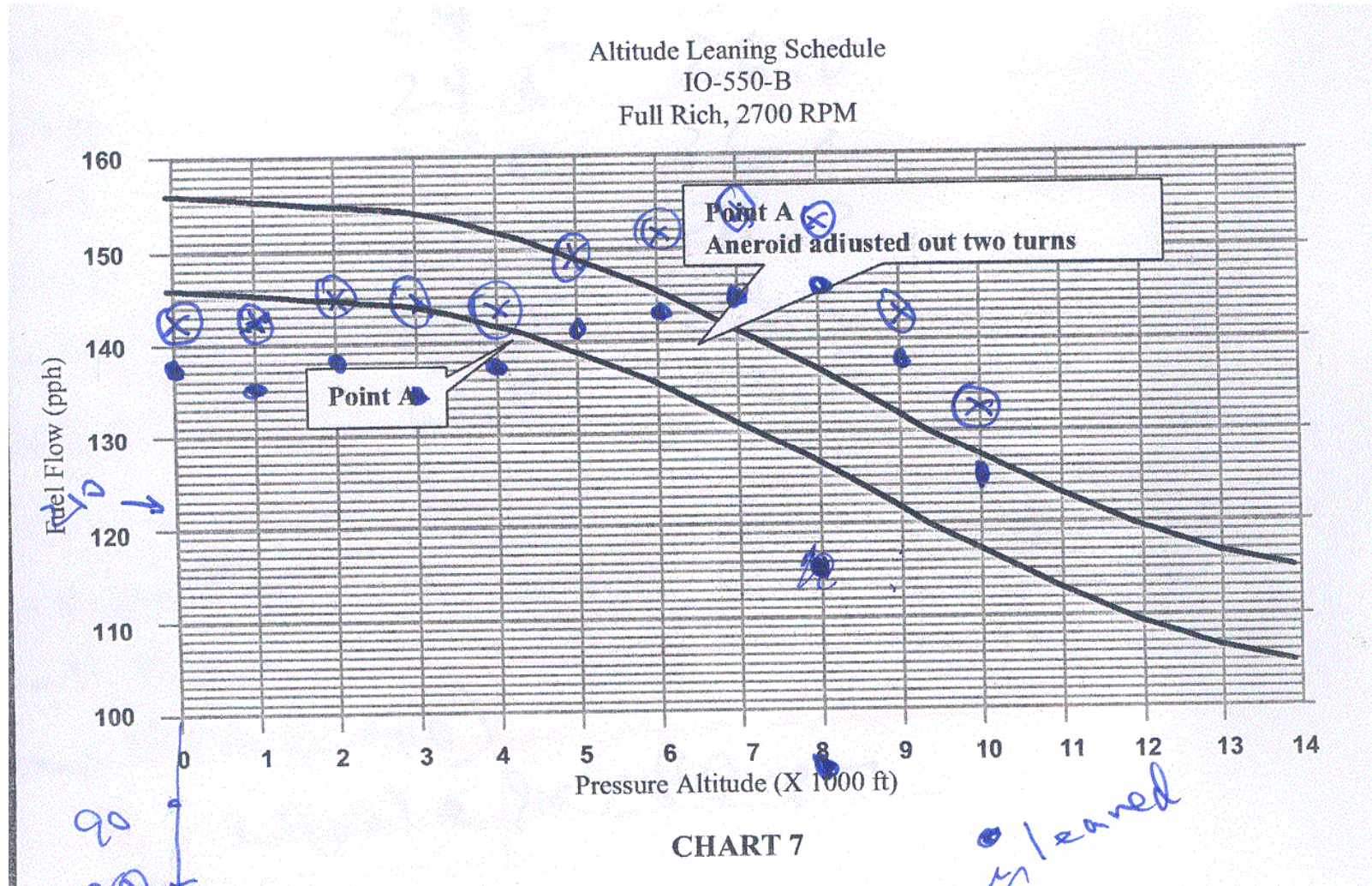
Gasoline = 5.87 lbs per gallon @ 70° F.





# Bonanza Fuel Pump Installation and Checkout

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## **Wrap-Up**

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- **Something to learn for everyone**
  - **Theme for recurrent session is ‘Real World IFR’**
- **Multiple attendees can share a plane**
- **Required insurance ‘hold harmless’ release**
- **Enjoyed course, good camaraderie**
- **Next BPPP near us is in Santa Maria,  
October 26-28, 2007**
- **More info at [www.bppp.org](http://www.bppp.org)**