CALIFORNIA FLYERS PIPER ARROW CHECKOUT

CUSTOMER INFORMATION

Name:_____ Certificate #: _____
Certificates/Ratings:
❑ Student ❑ Private ❑ Commercial ❑ ATP ❑ CFI/CFII ❑ Instrument
Total Pilot Time: _____ Time in Model: _____ Last Flight Review Date: _____ Instrument Current? ❑ Yes ❑ No

ENGINE/AIRCRAFT DATA

Aircraft Make/Model: _____
Fuel Capacity (Gals): _____ Usable Fuel (Gals): _____ Fuel @ Tabs (Gals):_____ Min Octane:_____ Oil Capacity (Qts):_____ Oil Type:_____ Horsepower: _____
Engine Model:_____ Max Occupants (Including Pilot):_____

WEIGHT AND BALANCE

	Pounds	Moment
Empty Weight		
Useable Fuel		
Pilot/ Pass		
Rear Pass		
Baggage		
Total		

AIRCRAFT INFORMATION (V SPEEDS - KIAS)

Vr _____ Vso _____ Vfe _____ Va_____
Vx _____ Vs _____ Vlo _____
Vy _____ Vs1 ____ Vle _____
Vno _____ Vne ____ Vg _____

When can we fly in the yellow ARC?
_____

What is the Green ARC?

_____

What's the approach to landing speed flaps up? _____

What's the approach to landing speed flaps down? _____

What is the stall speed in a 30° bank with full flaps: _____30°bank no flaps:_____

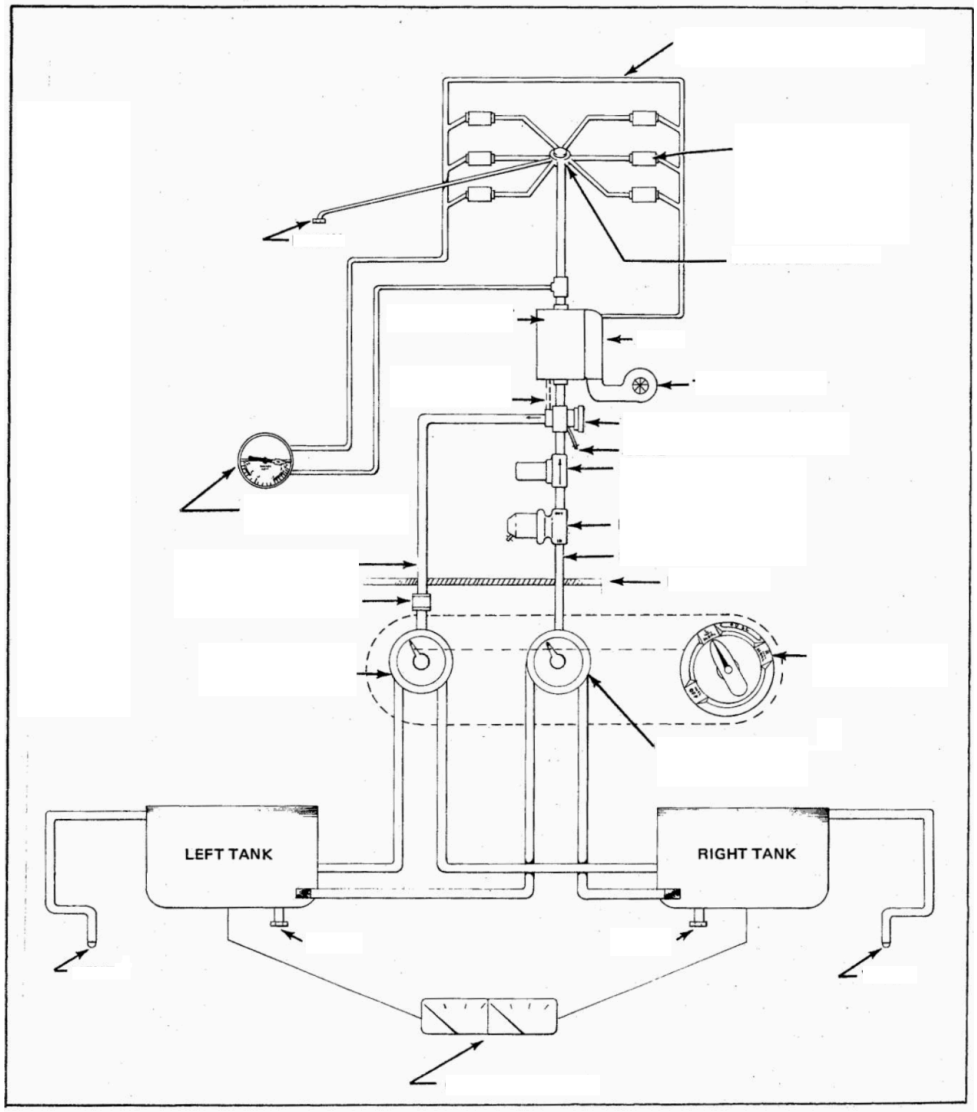
What is the maximum demonstrated crosswind component for the aircraft?

_____

AIRCRAFT SYSTEMS

LABEL THE DIAGRAMS AND BRIEFLY DESCRIBE THE OPERATION OF EACH

Fuel System

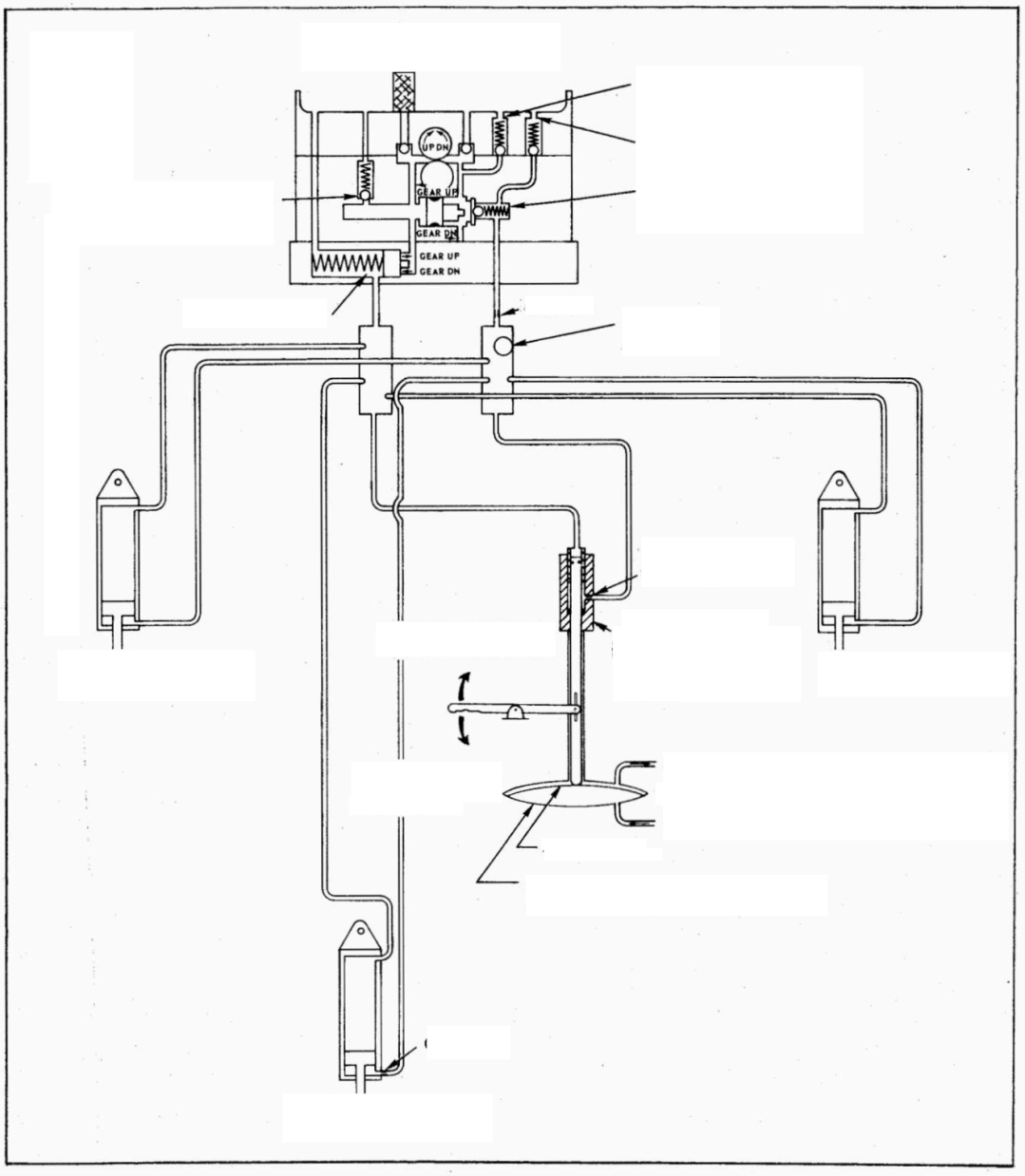


FUEL SYSTEM SCHEMATIC

DETAILS:_____

_____

Landing Gear System



LANDING GEAR HYDRAULIC SCHEMATIC

DETAILS:

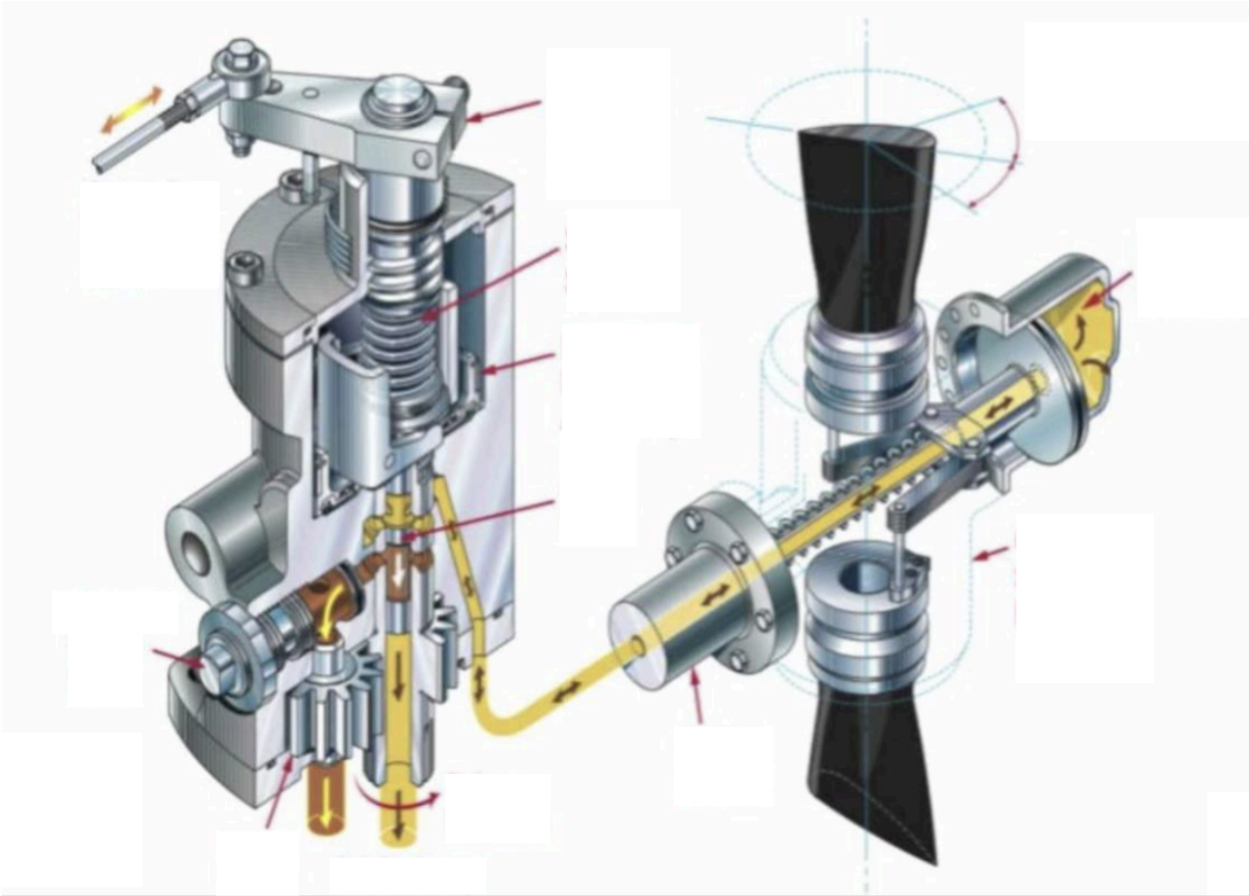
Describe the Emergency Gear Extension Procedure

_____

_____

_____

Constant Speed Propeller



DETAILS:_____

_____

_____

_____

_____

_____

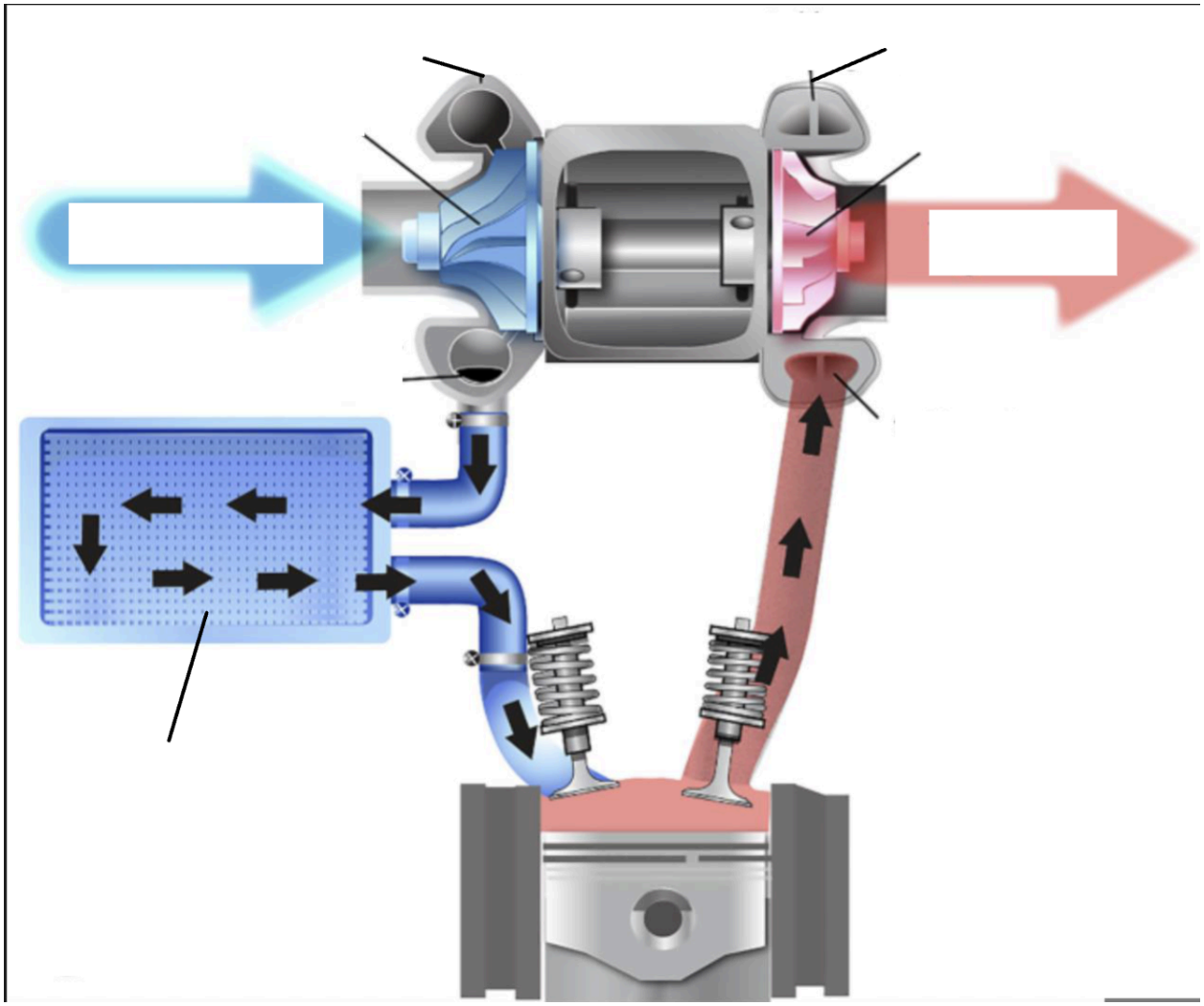
Engine

Engine Make and Model:

_____

_____

Describe the Turbo Charger System



Explain how the system works:_____

_____

_____

_____

AIRCRAFT PERFORMANCE

Power Settings Chart

N44862 POWER SETTINGS
Piper Arrow III Turbo

TAKE OFF

RPM	MAP	CHT	KIAS	MIXTURE
2450	41"	< 460ºF	78	FULL RICH

*** IF OVERBOOT REDUCE THROTTLE**

CLIMB

RPM	MAP	CHT	KIAS	MIXTURE
2450	33"	< 460ºF	104	FULL RICH

*** IF OVERBOOST REDUCE THROTTLE**

Charts Based on no wind, 2900 pounds, Best Power
For each 6ºF above standard temp. add 0.4" MAP
For each 6ºF below standard temp. subtract 0.4" MAP

ECONOMY CRUISE 55% POWER (EGT 0-25ºF ROP)

ATL	Std Temp	RPM	MAP	CHT	EGT	KTAS	GPH
Sea Lvl	59ºF	2300	27.7	< 350ºF	< 1650ºF		
2,000	52ºF	2300	27.7	< 350ºF	< 1650ºF	120	11.0
4,000	45ºF	2300	27.7	< 350ºF	< 1650ºF	124	11.0
6,000	38ºF	2300	27.7	< 350ºF	< 1650ºF	127	11.0
8,000	31ºF	2300	27.7	< 350ºF	< 1650ºF	133	11.0
10,000	23ºF	2300	27.7	< 350ºF	< 1650ºF	137	11.0

STANDARD CRUISE 65% POWER

ATL	Std Temp	RPM	MAP	CHT	EGT	KTAS	GPH
Sea Lvl	59ºF	2300	31.1	< 375ºF	< 1650ºF		
2,000	52ºF	2300	31.1	< 375ºF	< 1650ºF	138	12.7
4,000	45ºF	2300	31.1	< 375ºF	< 1650ºF	143	12.7
6,000	38ºF	2300	31.1	< 375ºF	< 1650ºF	147	12.7
8,000	31ºF	2300	31.1	< 375ºF	< 1650ºF	150	12.7
10,000	23ºF	2300	31.1	< 375ºF	< 1650ºF	154	12.7

HIGH PERFORMANCE CRUISE 75% POWER (EGT 100ºF rich of peak)

ATL	Std Temp	RPM	MAP	CHT	EGT	KTAS	GPH
Sea Lvl	59ºF	2300	34.8	< 400ºF	< 1650ºF		
2,000	52ºF	2300	34.8	< 400ºF	< 1650ºF	138	14.0
4,000	45ºF	2300	34.8	< 400ºF	< 1650ºF	143	14.0
6,000	38ºF	2300	34.8	< 400ºF	< 1650ºF	147	14.0
8,000	31ºF	2300	33.8	< 400ºF	< 1650ºF	150	14.0
10,000	23ºF	2400	33.8	< 400ºF	< 1650ºF	154	14.0

DO NOT ATTEMPT TO DETERMINE PEAK EGT ABOVE 75% POWER

Set mixture to "Full Rich" for changes in altitude & power settings

What is the maximum takeoff power for your aircraft?

_____

What is the maximum climb power for your aircraft?

_____

What is Manifold Pressure?

_____

_____

What is overboosting?

_____

_____

What can occur in the engine from overboosting?

_____

What is RPM?

_____

_____

What is overspeeding the propeller?

_____

How can a prop overspeed condition occur?

_____

_____

What can occur from an improper power setting?

_____

What is shock cooling?

_____

How do you minimize damage to the engine and/or reduce the risk of shock cooling?

_____

_____

PROCEDURES:

Describe the following procedures for the Arrow:

Engine Start:

_____

_____

Taxi:

_____

_____

Run Up:

_____

_____

Clearing a fouled spark plug:

Take Off:

Climb Out:

Go-Around:

Landing/Shutdown :