

SE-LDU

Piper Archer III / PA-28-181



POH --> Pilot Operation Handbook

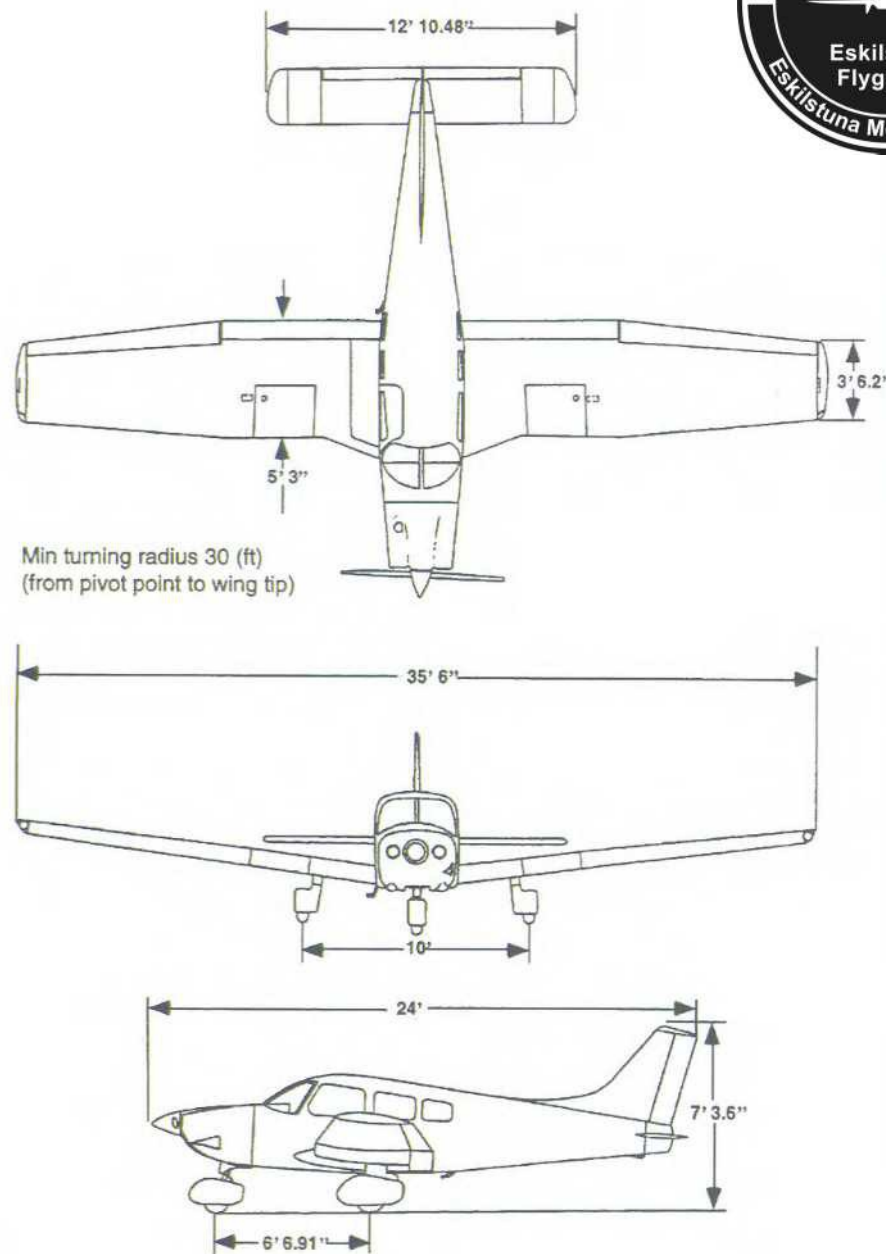


- Section 1 General
- Section 2 Limitations
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- Section 7 Descriptions and operation of the airplane systems
- Section 8 Airplane handling, servicing and maintenance
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Dimension

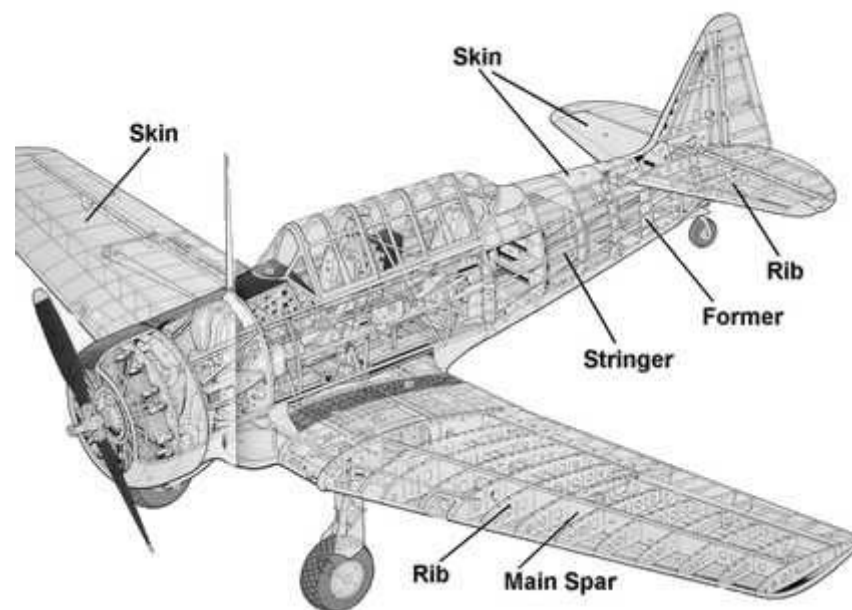


- ›Höjd 2.22 m
- ›Vingspann 10.82 m
- ›Längd 7.32 m
- ›Minsta vändradie 9.14 m



Konstruktion

Konstruktion	Semi-monocoque
Material	Aluminium med plastdetaljer
Vingprofile	NACA 652-415



Motor



Tillverkare	Lycoming
Model nummer	O-360-A4M
Hästkrafter	180 hk
Max motorvarv	2700 rpm
Motortyp	Fyra cylindrar Direkt drift Boxermotor Luftkyld
Max oljetemperatur	245 F eller 118 C



Propeller



Tillverkare	Sensenich
Antal blad	2
Typ av propeller	Fast

Bränsle



Tankkapacitet	50 USG eller 189 liter
Användbart bränsle	48 USG eller 182 liter
Tankas med	91/96 UL i första hand, 100LL i nödfall.



Motorolja



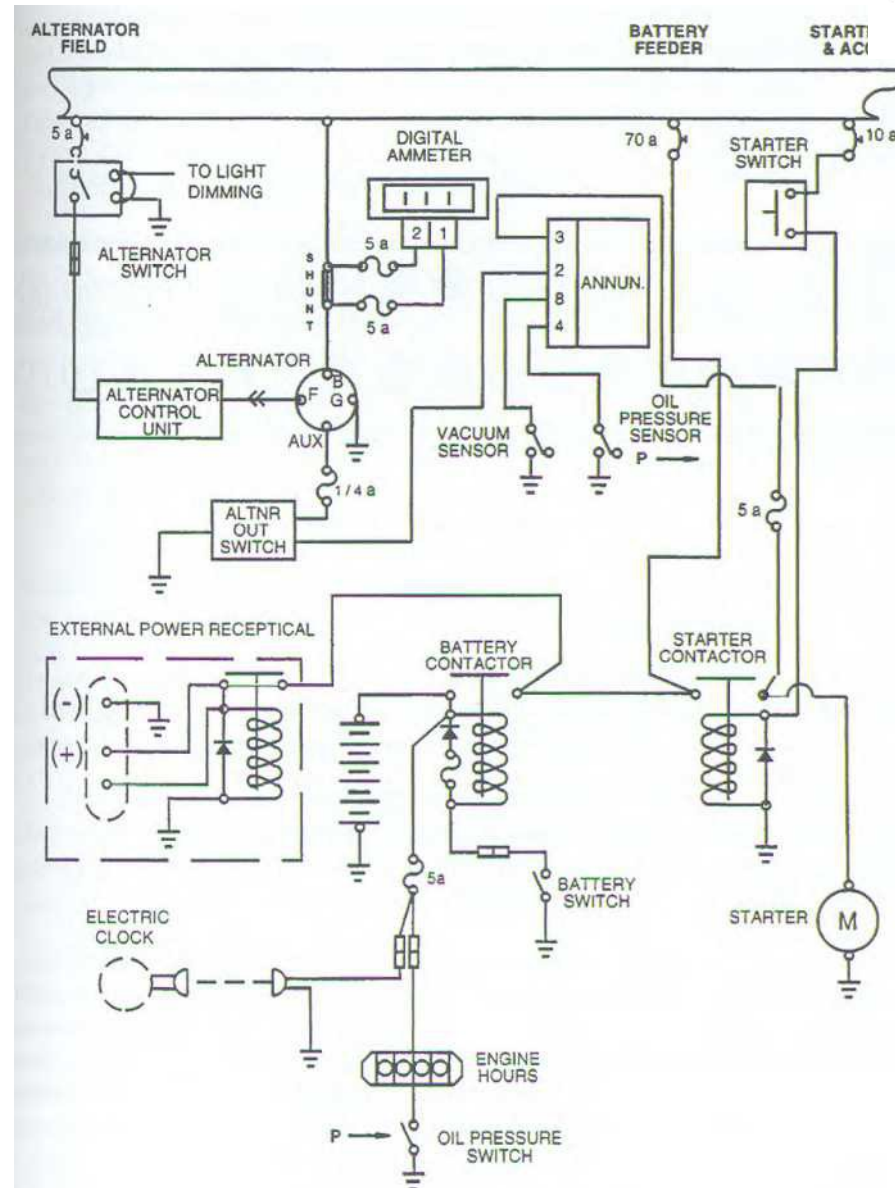
Olje kapacitet	8 qts
Typ av olja	15W50 eller W80 ??
Min oljemängd vid start	6 qts

Elsystem

System 28V

Batteri 24V 10Ah

Alternator 28V 70A



ALTERNATOR AND STARTER SCHEMATIC

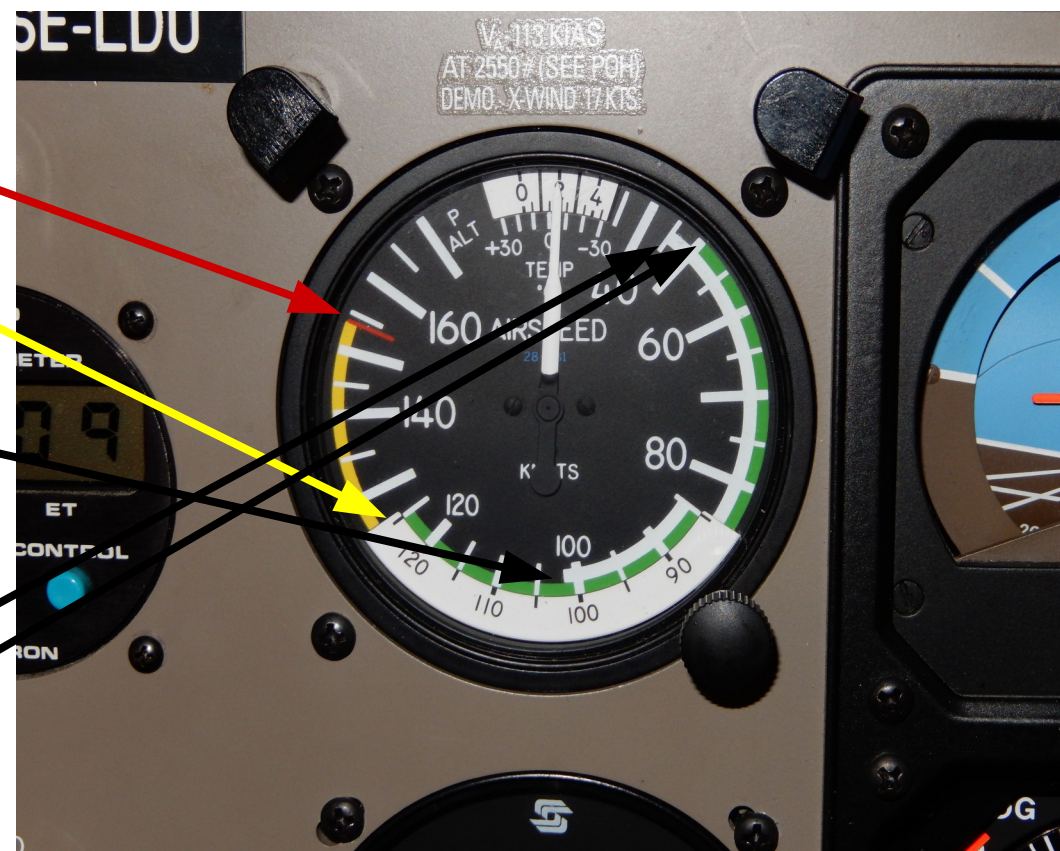


Vikter

Maximum rampvikt	1160 kg
Maximum startvikt	1157 kg (1155)
Maximum landingsvikt	1157 kg (1155)
Maximum bagagevikt	91 kg
Grundtomvikt	797 kg
Användbar vikt	360 kg (358)
Bränsle 48 USG, 182 liter (fulla tankar)	129 kg
Tillsatsvikt efter fulla tankar	231 kg (229)
Bränsle 34 USG. 136 liter (standardtankn)	97 kg
Tillsatsvikt efter standardtankn	263 kg (261)

Fartbegränsningar (KIAS)

V_{NE}	154
V_{NO}	125
V_A	113 / 2550 lbs 89 / 1634 lbs
V_{FE}	102
V_X	64
V_Y	76
V_{CLIMB}	87 (en route)
$V_{POWER\ DESCENT}$	122 (2500 RPM)
V_{GLIDE}	76
V_{S0}	45
V_{S1}	50





Farter i varvet (KIAS)

Rotation	60 (kort f 55)
Medvind	90
Bas	80
Final	70
Tröskel	66



Manöverbegränsningar

Normal kategori

Alla aerobatic manouvers inclusive spin är
FÖRBJUDNA!!!

Utility kategori

Godkänd för svängar upp till 60 grader

	Normal	Utility
Positive belastning	3.8 G	4.4 G
Negativ belastning	Inga inverterade manövrar	



Typ av operation

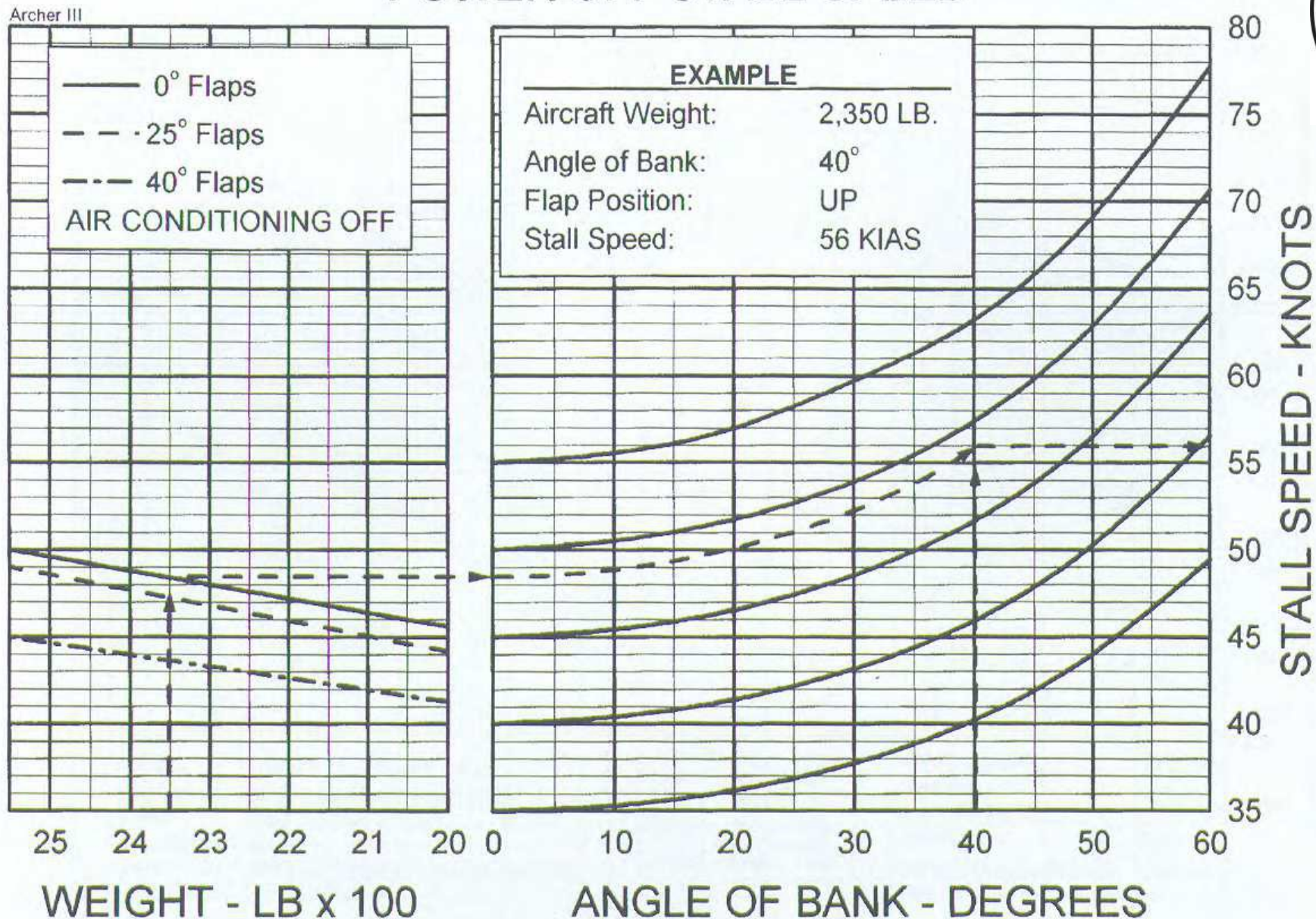
VFR dag och natt	Ja
IFR dag och natt	Ja
Isbildning	Nej



Diverse begränsningar

Max flyghöjd	13,240 ft AMSL ?
Max demonstrerad sidvindskomponent	17 kts

POWER OFF STALL SPEED





FLAPS 25° TAKEOFF PERFORMANCE

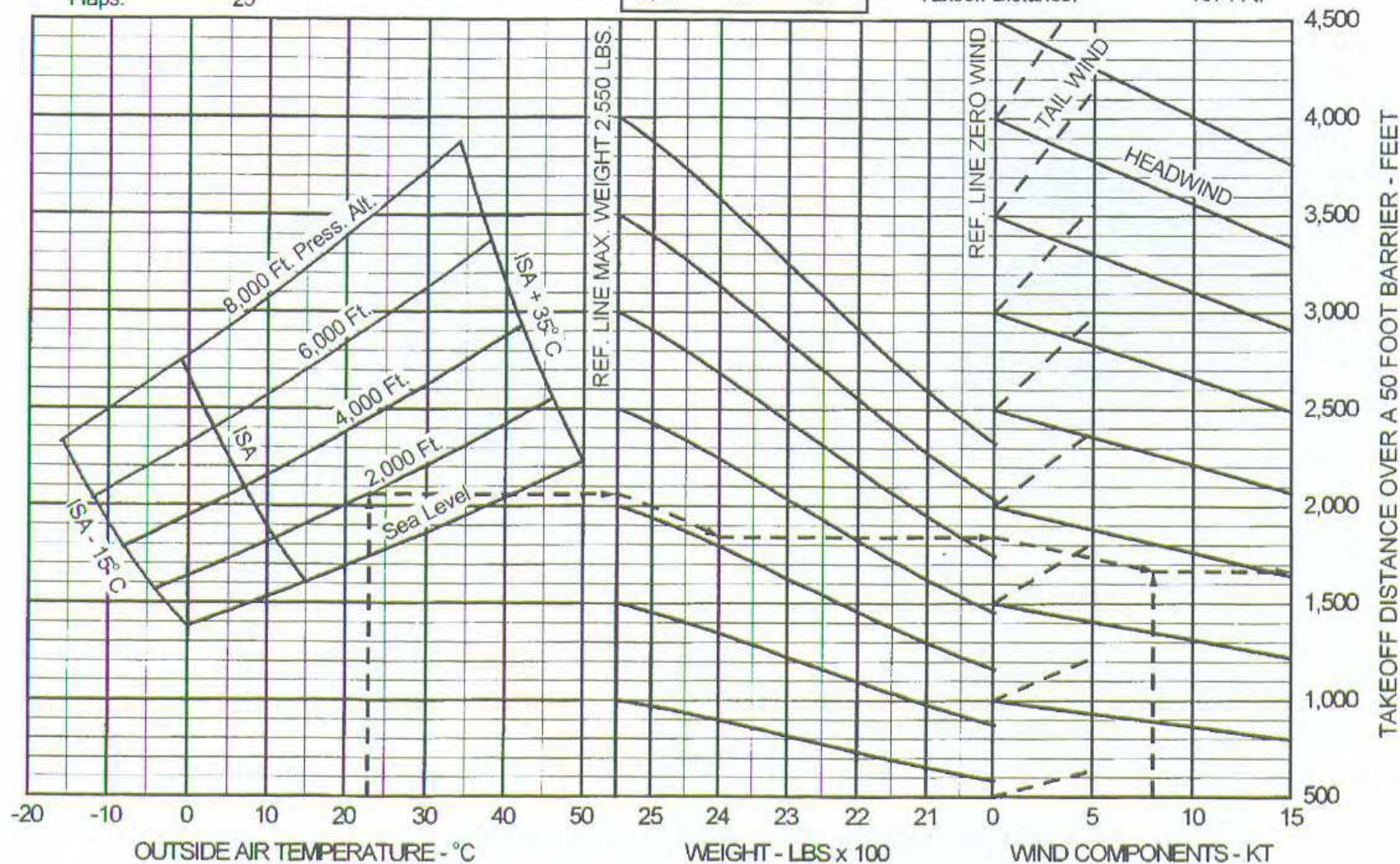
ASSOCIATED CONDITIONS

Power: FULL THROTTLE BEFORE BRAKE RELEASE
 Air Conditioner: OFF
 Runway: PAVED, LEVEL, & DRY
 Airspeed: REFER TO TABLE AT RIGHT
 Propeller: SENSENICH 76EM8S14-0-62
 Flaps: 25°

TAKEOFF SPEEDS			KIAS
WT	LIFTOFF	50 FT	
2,550	55	60	
2,450	55	58	
2,350	53	56	
2,250	50	54	

EXAMPLE

Depart Airport Pressure Alt: 2,000 Ft.
 Temperature: 23° C
 Gross Weight: 2,400 Lb.
 Headwind: 8 Kt.
 Takeoff Distance: 1674 Ft.





Fartprestanda

På 4000ft

Effekt (RPM)	Bränsleförbrukning	TAS
55% (2300)	8,2 gallon (31L)	107
65% (2450)	9,5 gallon (36L)	116
75% (2575)	11 gallon (41,5L)	125

På 8000ft

Effekt	Bränsleförbrukning	TAS
55% (2340)	8,2 gallon (31L)	108
65% (2495)	9,5 gallon (36L)	119

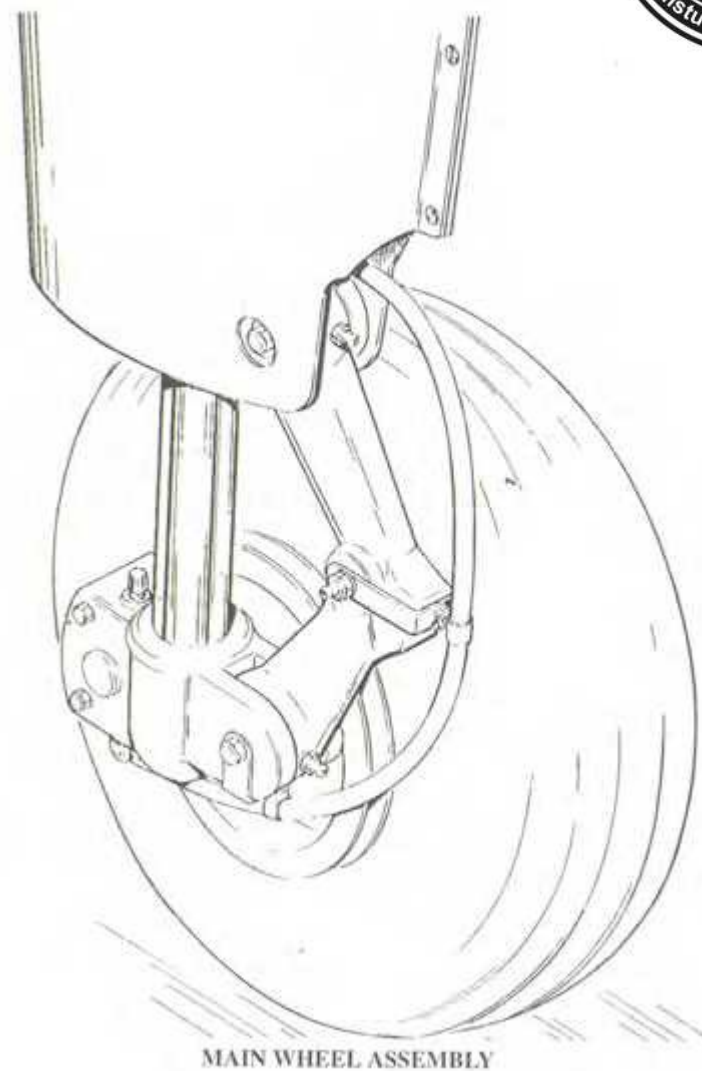
Landningsställ

Däcktryck

Noshjul 18 psi

Huvudhjul 24 psi

Noshjul styrs med roderpedaler



Bromsar

Typ av bromsar

Hydrauliska bromsok
och skivor.

Cylindrar

Höger, vänster och
handbroms

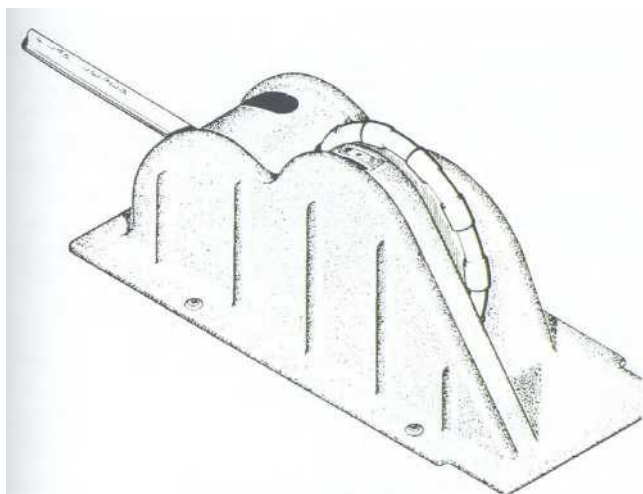
Reservoir

1st

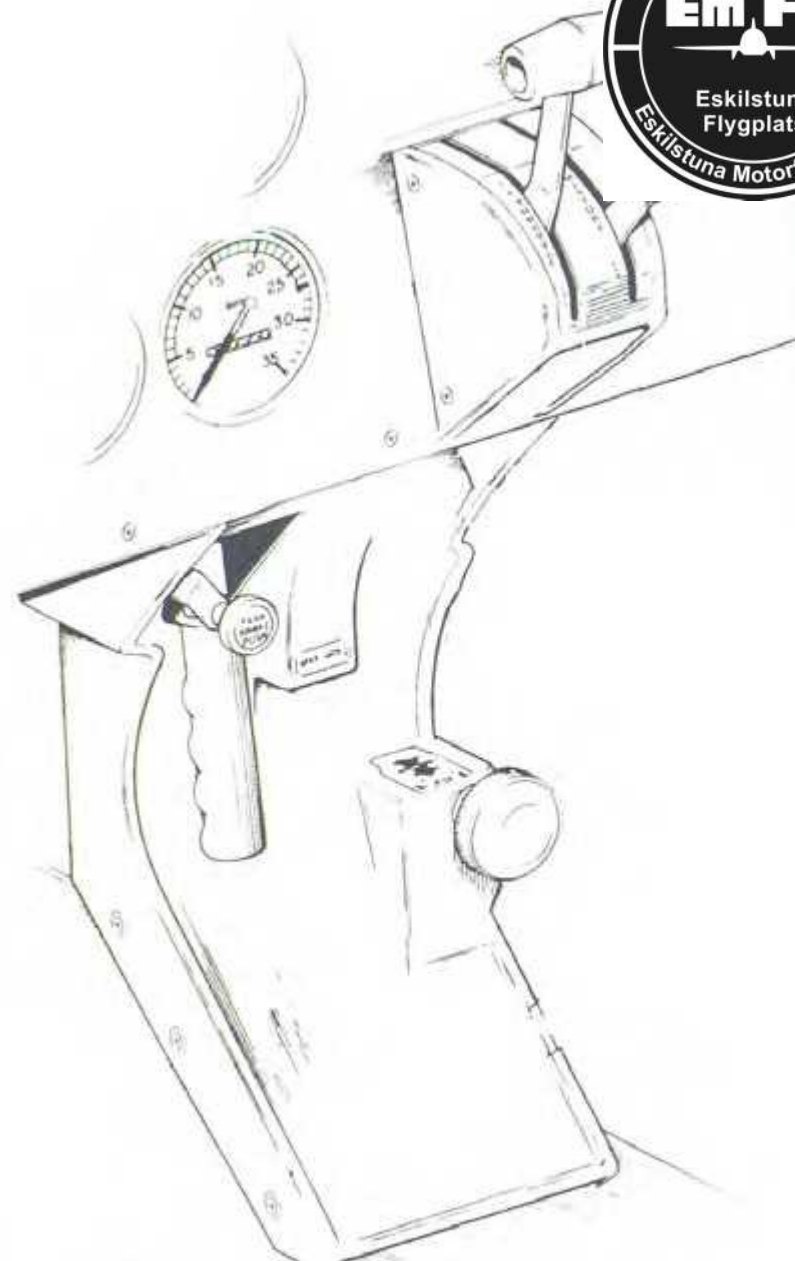


Flygkontroller

System	Vajrar och kedjor
Trim	Höjdtrim – manuel och elektrisk Sidtrim – manuel
Klaff	Manuel – 0, 10, 25, 40 grader



FLIGHT CONTROL CONSOLE



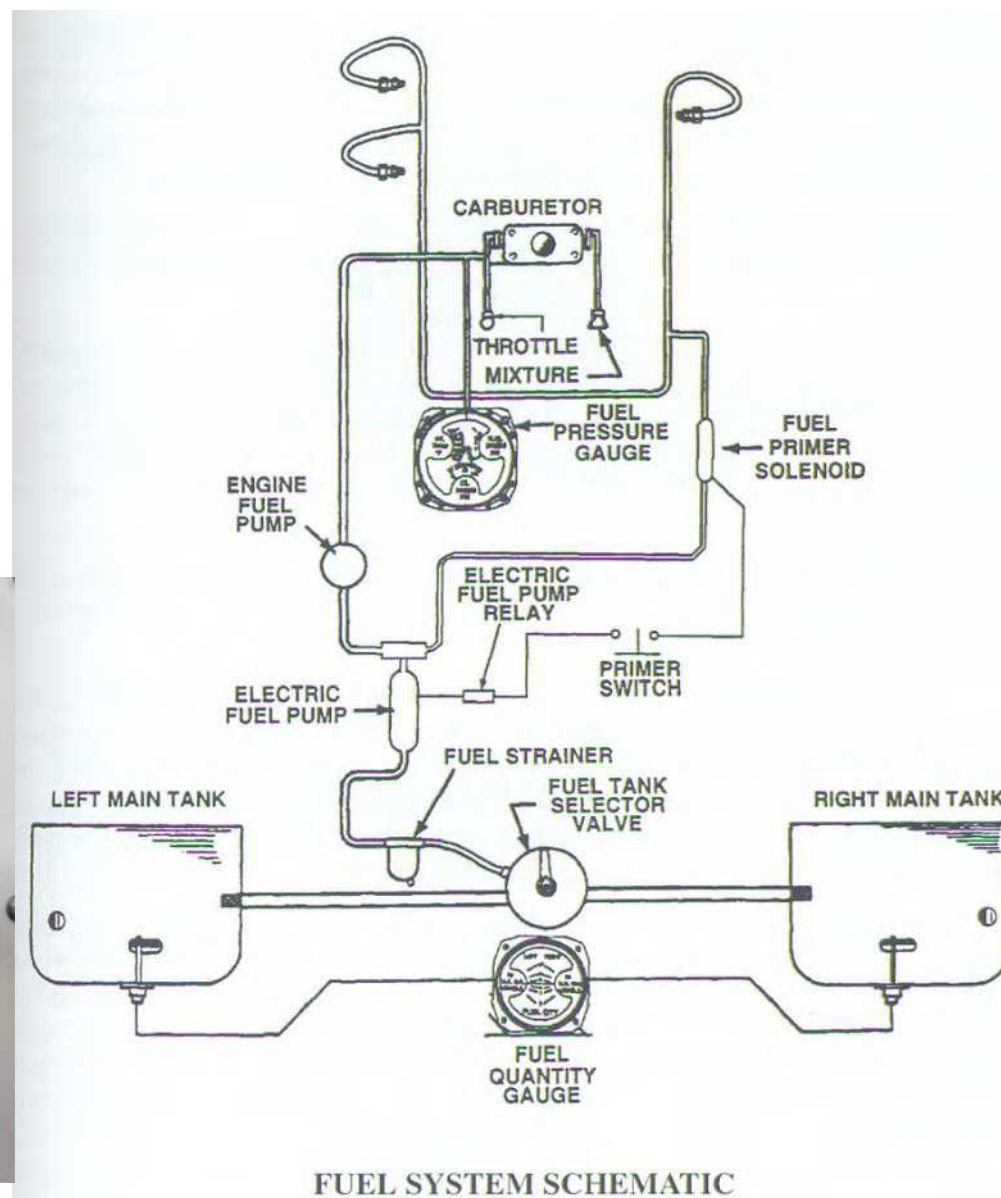
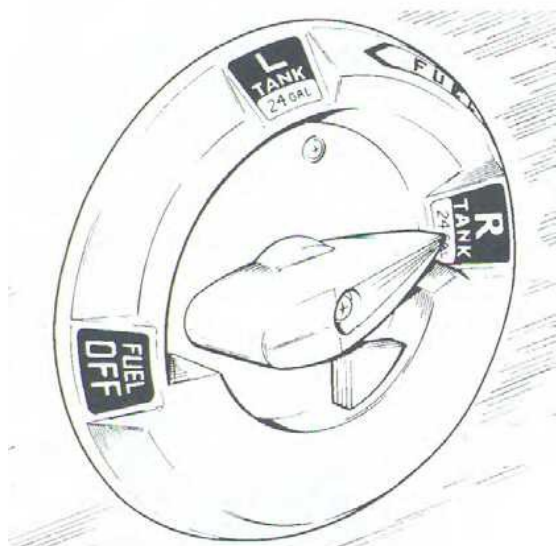
CONTROL QUADRANT AND CONSOLE



Motorreglage



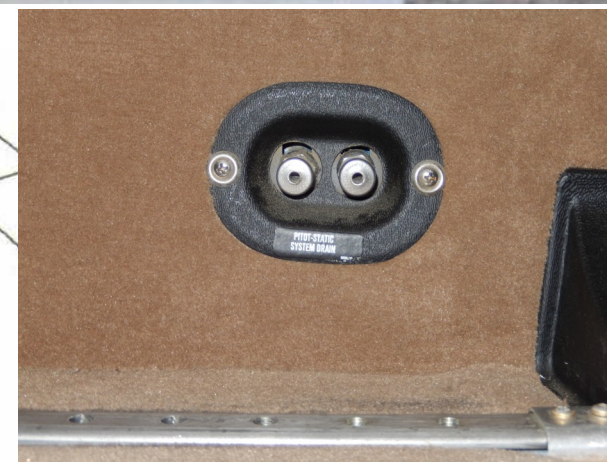
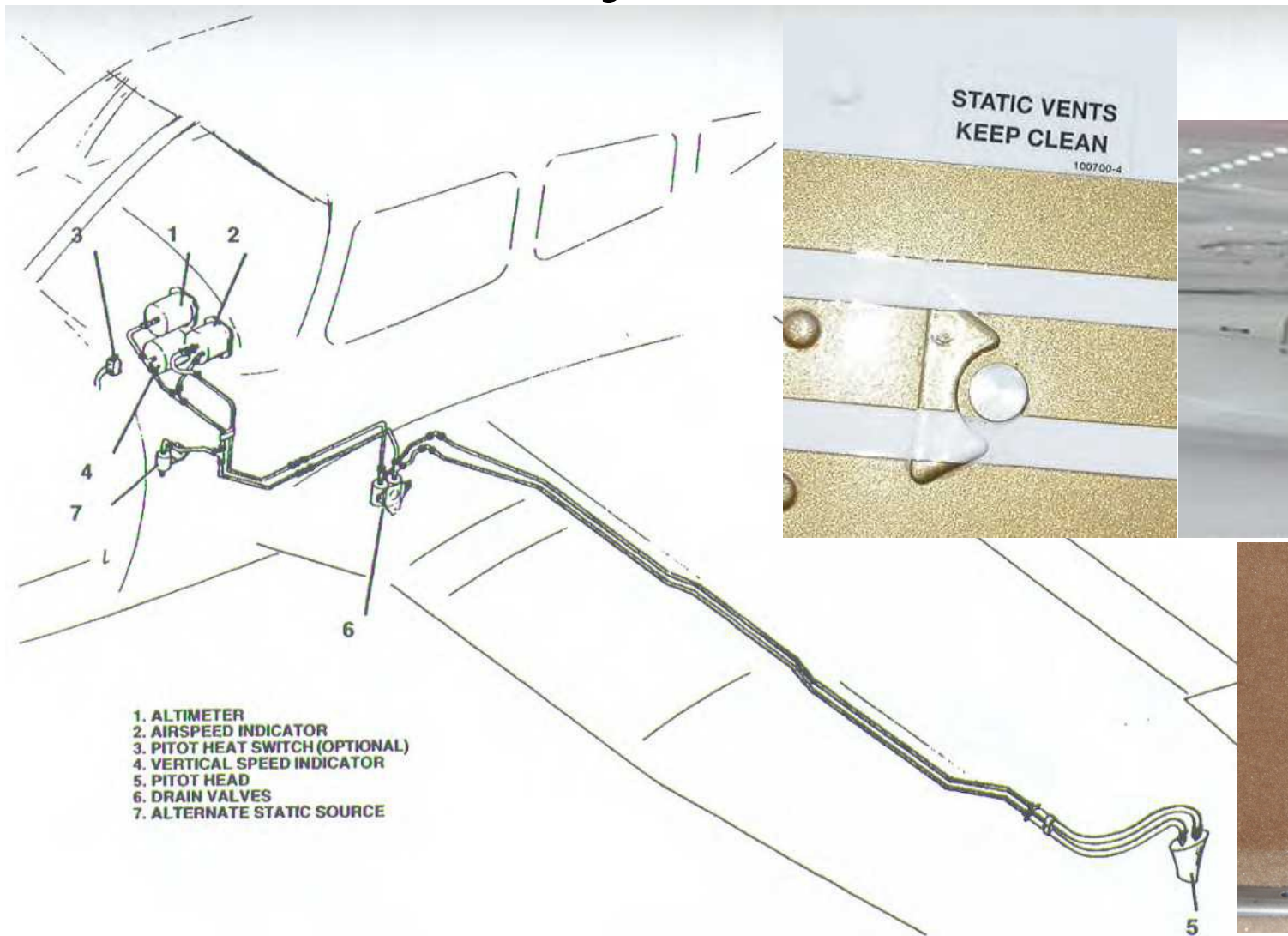
Bränslesystem och motorinstrument



Dränering



Pitot-Static system



Instrumentpanel



Övre knapppanel



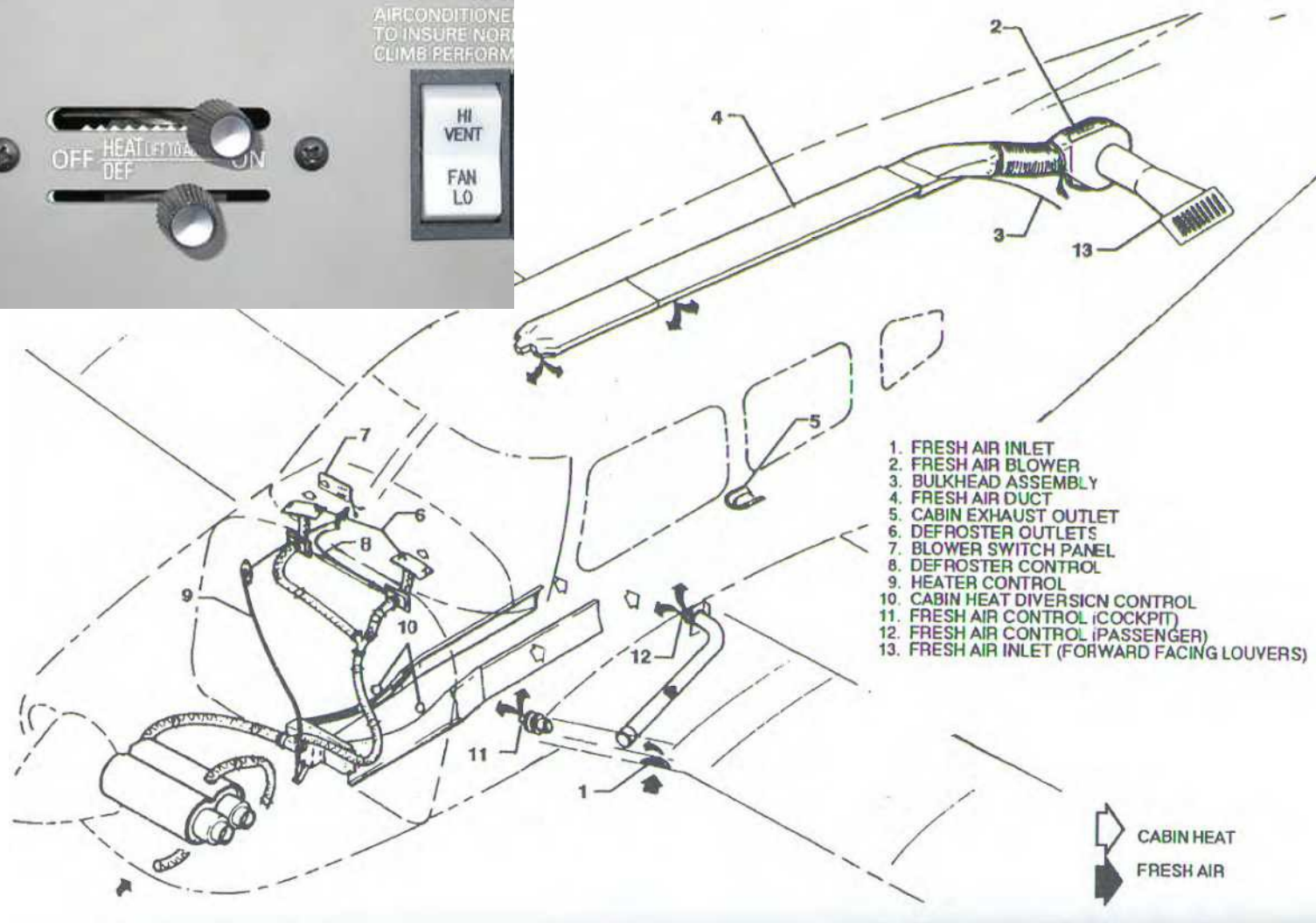
Knappar på panelen



Säkringar



Värme och ventilation



Horisontgyro och slavat kursgyro



Annunciator panel



Extern el



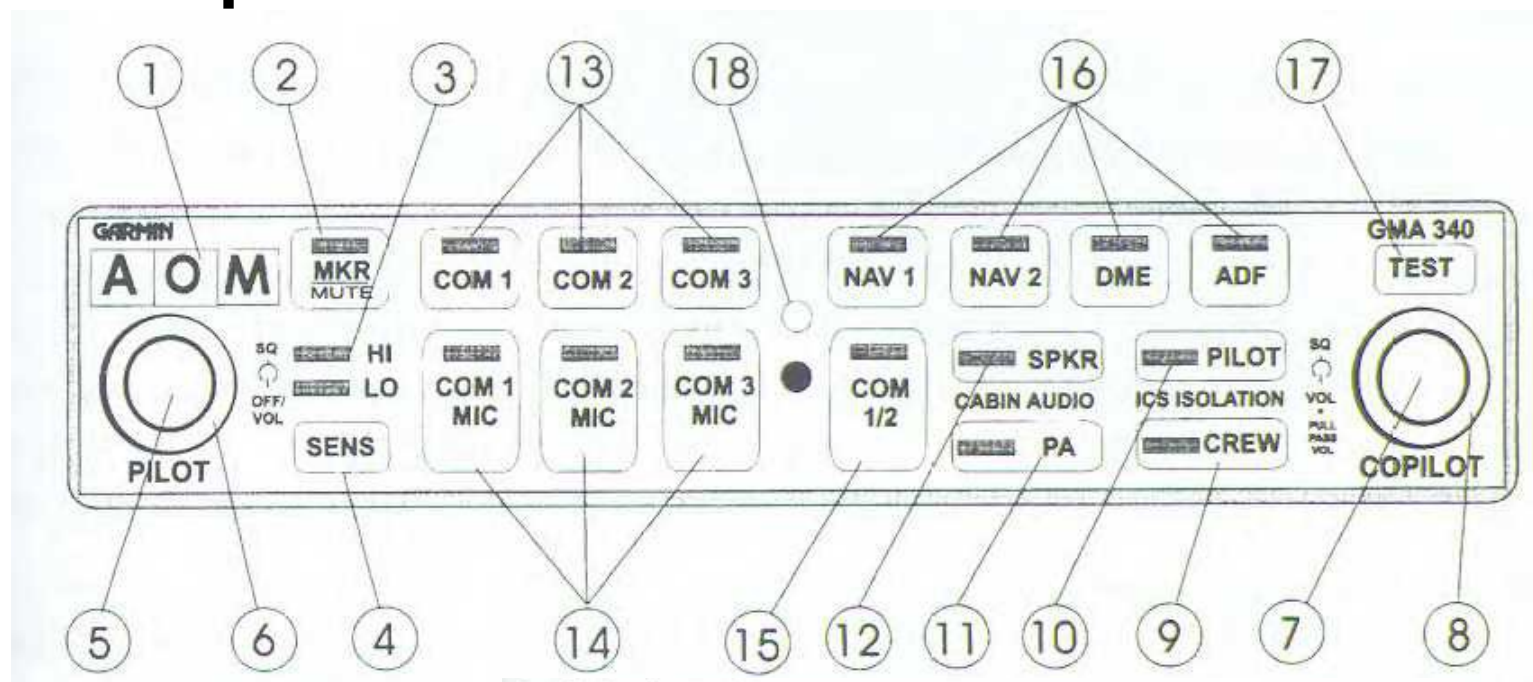
Emergency Locator Transmitter



Auxiliary vacuum system



Audio panel



1. Marker Beacon Lamps
2. Marker Beacon Receiver Audio Select/Mute Button
3. Marker Beacon Receiver Sensitivity Selection Indicator LED
4. Marker Beacon Receiver Sensitivity Selection Button
5. Unit On/Off, Pilot Intercom System (ICS) Volume
6. Pilot ICS Voice Activated (VOX) Intercom Squelch Level
7. Copilot and Passenger ICS Volume Control (Pull out for Passenger Volume)
8. Copilot/Passenger VOX Intercom Squelch Level
9. Crew Isolation Intercom Mode Button
10. Pilot Isolation Intercom Mode Button
11. Passenger Address (PA) Function Button
12. Speaker Function Button
13. Transceiver Audio Selector Buttons (COM1, COM2, COM3)
14. Transmitter (Audio/Mic) Selection Buttons
15. Split COM Button
16. Aircraft Radio Audio Selection Buttons (NAV1, NAV2, DME, ADF)
17. Annunciator Test Button
18. Photocell - Automatic Annunciator Dimming

Garmin GNS 530/430



Höger avionikpanel



S-tec 55X Autopilot



Engage AP roll mode from ready (RDY). AP flies heading selected on D.G or HSI.

Push HDG + NAV, APR, or REV simultaneously for pilot selected angle of intercept.

Navigation intercept and track. NAV APR is automatic when a LOC freq. is selected on the nav receiver used for AP operation.

Allows Pilot to select high gain (same as LOC) for VOR or GPS approach.

For LOC back course inbound or outbound front course intercept and track.

NOTE: With HSI, always set course pointer to the inbound FRONT course heading for either front or back course approach.



NOTE: CWS, HDG, NAV or REV mode must be engaged to engage any Pitch mode.

Engages Altitude Hold

Engages Vertical Speed.

Allows VS command in 100 ft. increments with VS knob.



Altitude selector / alerter

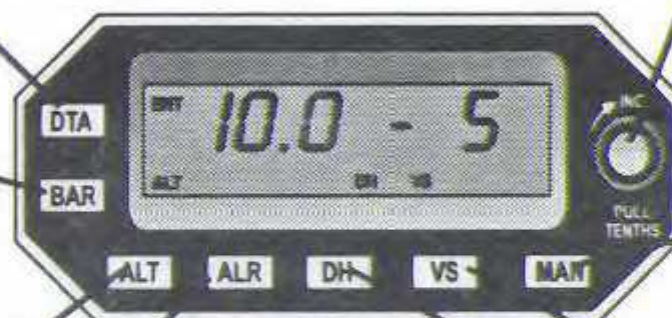


Opens or closes data entry mode

Selects BARO for calibration entry – Set to nearest tenth Hg. Push again for MB entry.

Selects Altitude for entry of target altitude. In operating mode, push to view target altitude. Push again to view encoder alt.

Arms Alt. Alert audible. Push On / Push Off



Input selector knob
Pull to select tenths input of BARO, ALT and DH.

Push to revert control of Vertical Speed to the Autopilot Programmer (VS numbers are blank) Push again for control by the selector.

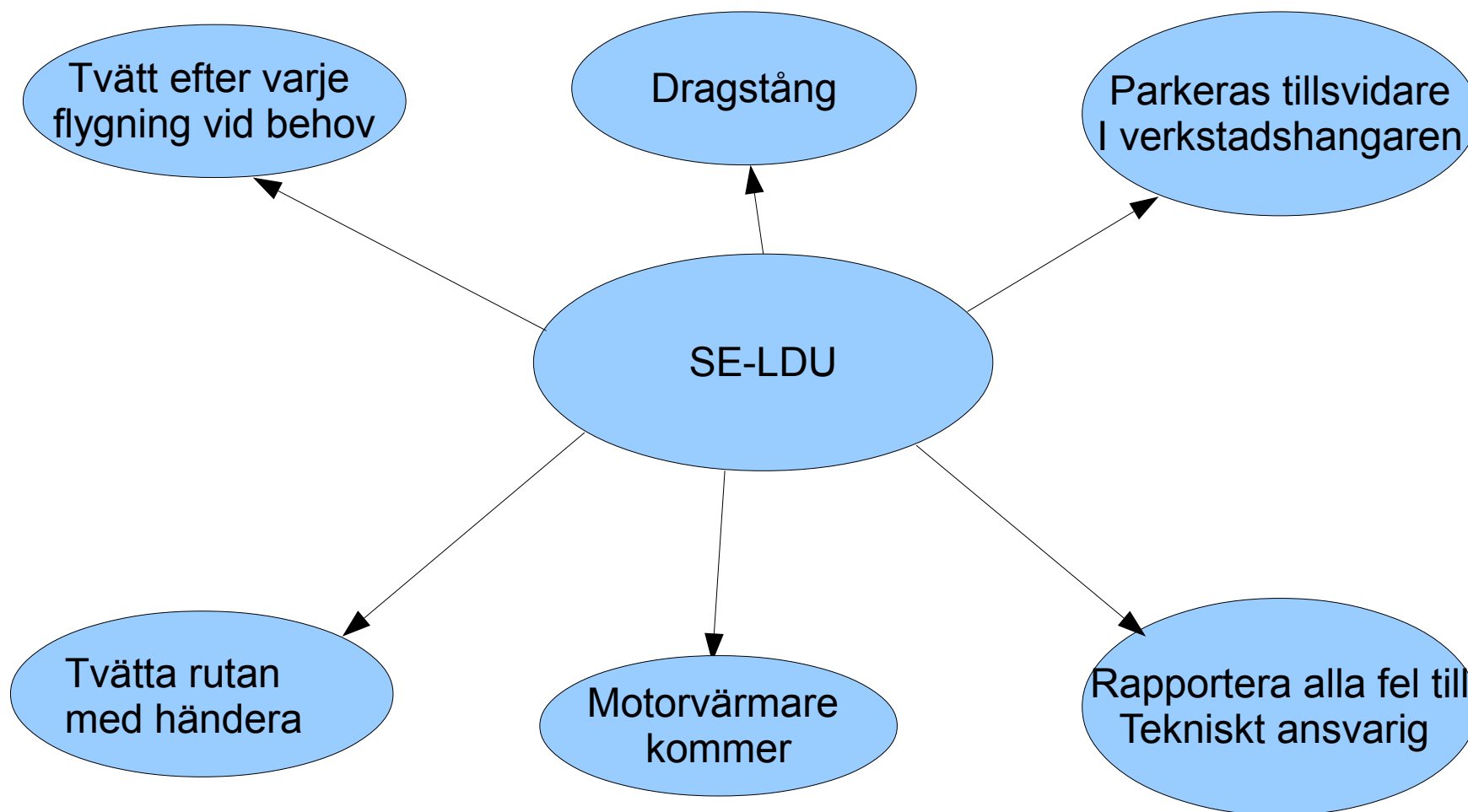
Selects Vertical Speed for entry of climb or descent in 100 ft. increments.

Selects Decision Height for entry. In operating mode, push to activate or deactivate audible alert.

Stormscope WX500



Råd och skötsel



Inflygning



Kontakta flyglärare

Christer Tallgren

Magnus Sandquist

Kjell-Åke Brorson