



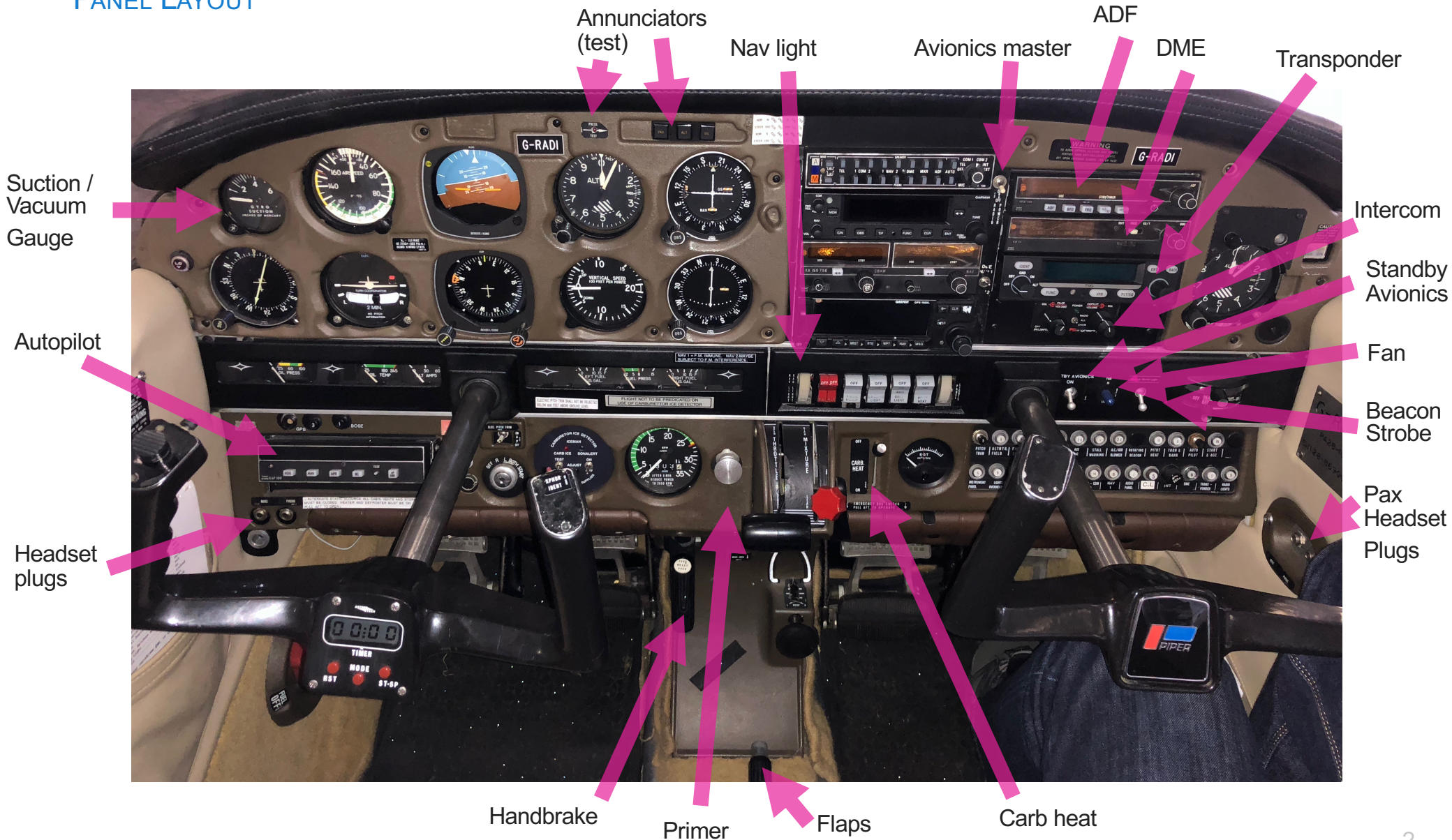
G-RADI – PA28-181 Archer II Familiarisation

- Specifications / Speeds
- Starting
- Take off
- Circuits
- Manoeuvres
- Emergencies



G-RADI

PANEL LAYOUT



ARCHER II

SPECIFICATIONS

- ENGINE – O-360-A4A- 180 HP (vs 160 HP FOR G-BRHC)
- FUEL – 189L (50 USG), 182L (48 USG) USEABLE
 - CONSUMPTION (10 USG/HR VS 9 USG/HR G-BHRC)
- OIL CAPACITY – 9 QUARTS (MIN 6 QT FOR FLIGHT)
- MTOW 2550LB / 1157KG (vs 2325LB / 1055KG FOR G-BHRC)

SPEEDS	G-RADI	G-BHRC	Grob 115
VNE	154	160	164
VNO	125	126	135
VFE	102	103	94
MAX XWIND	17	17	20
VROTATE	52-65 KT 45-54 KT (25°)	55 / 52 (FLAP)	55
V _X / V _Y	64 / 76	63 / 79	57 / 67
VAPPROACH	65	65	65

ARCHER II

STARTING

NORMAL COLD START

- THROTTLE $\frac{1}{4}$ INCH
- FUEL PUMP ON TO CHECK PRESSURE THEN OFF
- PRIME – 3 PUMPS
- MAGNETOS – START

ENGINE HOT START

- THROTTLE $\frac{1}{2}$ INCH
- REST AS PER COLD

ENGINE START IF FLOODED

- THROTTLE FULL OPEN, FUEL PUMP OFF, MIXTURE CUTOFF
- WHEN ENGINE FIRES, ADVANCE MIXTURE

ARCHER II

TAKE OFF

- FUEL PUMP SHOULD BE ON
- 0° FLAPS FOR A NORMAL TAKE-OFF
 - ROTATE 55 KTS
- 25° (SECOND NOTCH) FOR A SHORT FIELD TAKE-OFF
 - ROTATE BETWEEN 41-49 KTS AND ACCELERATE IN GROUND EFFECT TO 45-54
- ACCELERATE AND NORMAL CLIMB AT 76 KIAS (OR 64 KIAS FOR OBSTACLE CLEARANCE)
- RETRACT FLAPS AT 250FT AGL

ARCHER II

CIRCUITS

- DOWNWIND
 - 90 KTS, 2100 RPM
- BASE LEG
 - 75 KTS, 1500 RPM, CARB HEAT
 - FLAPS TO 25° (2ND NOTCH)
- FINAL
 - 66 KTS, 1500 RPM
 - FLAPS TO FULL
 - (70 KNOTS FOR FLAPLESS APPROACH)

ARCHER II

MANOEUVRES

- PFL / GLIDING
 - BEST GLIDE SPEED 75 KTS
 - APPROX 1.5NM PER 1000 FT AGL
- STALLS
 - HASELL CHECKS AS USUAL
 - FUEL PUMP ON
 - STALL SPEED: FULL FLAPS 49 KTS, CLEAN 55 KTS