

KEY FIGURES FOR HAWK XP

GENERAL:

MAX GROSS WEIGHT	- 2550
ENGINE	- 6 CYL; 195 HP (210 HP; 5 MIN MAX); CONTINENTAL
PROPELLER	- CONSTANT SPEED (9.7-25.1 DEGREES); 76" DIAMETER; Mc CAULEY
FUEL	- 52 GAL MAX; 49 GAL USABLE; 100LL (BLUE); 110/130 (GREEN)
OIL	- 9 QT MAX; 6 QT MIN; SAE 50 (SUMMER); SAE 30 (WINTER)
WING SPAN	- 36'
MIN TURN RADIUS	- 27' 5.5"

ENGINE:

MAX RPM	- 2600 (2800 – 5 MIN MAX)
NORMAL RANGE	- 2200-2600
WARM-UP	- 1200 – 1400
MANIFOLD PRESS	- 15-25"
MAX CYL HEAD TEMP	- 460 DEGREES
NORMAL RANGE	- 300-460 DEGREES
MIN FUEL PRESS	- 3.0 PSI
MAX FUEL PRESS	- 18.55 PSI (18 GPH)
NORMAL POWER	- 4.5 – 11.5 GPH

OIL:

MAX TEMP	- 240F
NORMAL RANGE	- 100-240F
MIN PRESSURE	- 10 PSI
MAX PRESSURE	- 100 PSI
NORMAL POWER	- 30-60 PSI

ACCELERATION:

FLAPS UP	- +3.8 TO -1.52G
FLAPS DOWN	- +3.0 TO 0G

MAG CHECK (1800 RPM):

MAX DROP - 150 RPM (FOR EITHER MAG)
COMPARISON - +/- 50 RPM (BETWEEN MAGS)

VACUUM CHECK (1800 RPM):

ALLOWABLE RANGE - 4.6 TO 5.4 PSI

ELECTRICAL SYSTEM:

ALTERNATOR - 60 AMP
BATTERY - 12V
OVER VOLTAGE LIMIT - 16 VOLTS

ELECTRICAL INSTRUMENTS:

DIGITAL FUEL QUANTITY/FUEL FLOW INDICATORS
DIGITAL OIL TEMP/PRESS
DIGITAL ENGINE TACHOMETER (RPM)
DIGITAL MANIFOLD PRESSURE
DIGITAL EGT/CHT INDICATOR
COURSE DIRECTION INDICATOR (CDI)
RADIO MAGNETIC INDICATOR (RMI)
TURN COORDINATOR
AMMETER

ENGINE DRIVEN INSTRUMENTS

- NONE

VACUUM DRIVEN INSTRUMENTS:

DIRECTION GYRO (DG)
ATTITUDE SITUATION INDICATOR (ASI)
VACUUM GAGE

PITOT STATIC DRIVEN INSTRUMENTS:

AIRSPEED INDICATOR (AI)
VERTICAL SPEED INDICATOR (VSI)
ALTIMETER (ALT)

INSTRUMENT GROUP CATEGORIES:

POWER - RPM; OIL TEMP; OIL PRESS
PERFORMANCE - AI; VSI; TURN COORDINATOR
FLIGHT - ASI; ALT; DG; CDI; RMI
WARNING - AMMETER; VACUUM GAGE; OVER VOLTAGE LIGHT

KEY SPEEDS:

VA - 105 BEST GLIDE - 75
VNE - 163 FINAL APPROACH - 65 (NORM; N/F); 60 (SHORT/SOFT)
VNO - 129 MAX CROSS WIND - 20
VFE - 85 HYDROPLANE - 55
VS - 54 STALL WARNING - 5-10 KNOTS ABOVE THE STALL
VSO - 46
VX - 59
VY - 81
VR - 55

NORMAL CLIMB:

2600 RPM; 25" MP; 85-95 KIAS; 16 GPH

CRUISE POWER SETTINGS (4000'; +7C [STD DAY])

2400 RPM (65%); 22" MP; 116 KIAS; 9.2 GPH

NORMAL PATTERN: (NO WIND, STANDARD DAY)

PATTERN ENTRY - 1000 AGL; AIRSPEED/POWER AS REQUIRED
MID-FIELD - 1000 AGL; 15" MP; <85 KIAS; FLAPS-10
ABEAM TOUCHDOWN - 12" MP; 75-80 KIAS; TRIM FOR 500 FPM DESC
TURN TO BASE - 700 AGL; 45 DEGREE ANGLE-OFF; FLAPS 20; 500 FPM DESC
TURN TO FINAL - ½ NM FROM TOUCHDOWN; 300-400 AGL; FLAPS 30
DESCENT ON FINAL - 500 FPM (4.5 DEGREE G/S) @ 65 KIAS (NORM; N/F); 60 KIAS (SHORT/SOFT)