

Cockpit positions	LF - Left Fore	CL - Center Left	RF - Right Fore
	LM - Left Middle	C - Center	RM - Right Middle
	LA - Left Aft	CR - Center Right	RA - Right Aft

BEFORE START

- Parking Brake (C)SET
- Flaps (LA)UP
- CARB. RAM & HOT AIR CONTROL levers (LA).....FULL FWD
- Rudder Trim (LM).....SET 6° RIGHT
- Elevator Trim (LM).....SET 2-4° NOSE DOWN
- Mixture Control lever (LM)IDLE CUT-OFF
- Propeller RPM Control leverFULL FWD
- Throttle.....Advance 1 inch

ENGINE START

- Fuel Shut-Off Valve (C)ON
- Fuel Selector Valve (C)SET TO MAIN LEFT
- FUEL BOOSTER (CL)ON
- IGNITION (Magnetos) (C)BOTH
- BAT switch (RM)ON
- GEN switch (RM)ON
- Oil & Coolant Radiator Flaps Control switches (LM)AUTO
- PRIMER (CL)HOLD 3-4”
- Starter switch (CL).....UNCOVER & HOLD
- Mixture Control lever (LM).....RUN

POST-START

- Radio (RM)SET & TUNED
- Oxygen Mix switch (RF)NORMAL
- Altimeter (CL).....SET
- Gunsight Gyro Power (CL).....ON
- Gunsight Brightness (CL).....As des.
- Gunsight Mode (CL).....As des.
- GUN HEAT & PITOT HEAT switches (RM)ON
- POSITION LGTS switches (RM).....As des.

ENGINE WARM-UP

- ThrottleSET 1000-1200 RPM
- Oil PressureCHECK ≥ 60 psi

Wait until engine oil warms up ≥ 15° & coolant ≥ 60°

TAXI

- Parking Brake (C)RELEASE

BEFORE TAKEOFF

- Attitude Indicator (C).....UNCAGE
- Takeoff Trim.....CHECK
- Flaps (LA)UP or 10-20°

Takeoff	Rotate	120 mph	Landing	Downwind	150 mph
	Climb	175 mph		Gear / Flaps	150 mph
				Final	120 mph

BEFORE TAKEOFF (CONTINUED)

- CanopyCLOSE

TAKEOFF

- Tail wheel.....Check straight
- Stick.....HOLD BACK
- Wheel Brakes.....HOLD
- Throttle.....Slowly advance to 35 inHg
- Wheel Brakes.....RELEASE
- ThrottleSlowly advance to 61 inHg (T/O Power)
- At 100 mph.....Center stick
- At 120 mph.....ROTATE

AFTER TAKEOFF

- ≤ 170 mph GearUP
- ≤ 165 mph FlapsUP
- Climb Power Setting46 inHg & 2700 RPM
- Climb Speed.....175 mph

CRUISE

- Power Setting36 inHg & 2400 RPM

VISUAL APPROACH & LANDING

- Altimeter (CL).....SET
- Fuel Selector Valve (C)Set to fullest internal tank
- Gun, Camera & Sight (C).....OFF
- Power Setting2700 RPM
- Pattern altitude1000 ft AGL or As req.

On Downwind

- Speed.....~150 mph
- Gear.....DOWN

On Base

- Flaps.....DOWN
- Speed120 mph

On Final

- FlapsFULL
- Speed120 mph
- ThrottleIDLE (Runway assured)
- 3-point attitude.....HOLD until touch-down

After touch-down

- Stick.....HOLD BACK until taxi speed

AFTER LANDING | RUNWAY VACATED

Flaps (LA)	UP
GUN HEAT & PITOT HEAT switches (RM)	OFF
Canopy	As des.

SHUTDOWN

Parking Brake (C)	SET
Flaps (LA)	UP
Gunsight Gyro Power (CL)	OFF
Attitude Indicator (C)	CAGE
Throttle	IDLE
Mixture Control lever (LM)	IDLE CUT-OFF
FUEL BOOSTER (CL)	OFF
IGNITION (Magnetos) (C)	OFF
Fuel Shut-Off Valve (C)	OFF
Radio (RM)	OFF
Oxygen Mix switch (RF)	CLOSE
GUN HEAT & PITOT HEAT switches (RM)	OFF
POSITION LGTS switches (RF)	OFF
GEN switch (RF)	OFF
BAT switch (RF)	OFF
Canopy	OPEN

M2 BROWNING 0.50 CAL MACHINEGUNS

Gunsight Gyro Power (CL)	ON
Gunsight Brightness (CL)	As des.
Gunsight Mode (CL)	As req.

A2A: Fixed+Gyro | A2G: Fixed

GUN HEAT & PITOT HEAT switches (RF)	ON
Gunsight range (Throttle handle)	1100 ft / As req.
Gunsight Wingspan (C)	SET to 32 ft (FW190 & Bf.109)
Gun, Camera & Sight	GUNS

POWER SETTINGS

Condition	RPM	Man. Pres.	Max. Duration
TAKEOFF	3000	61	5'
WEP	3000	67	5'
MILITARY	3000	61	15'
MAX CONT.	2700	46	Continuous
MAX CRUISE	2400	36	Continuous

SPEEDS

Rotate	120 mph
Gear	≤ 170 mph
Flaps	≤ 165 mph
Pattern	150 mph
Approach	120 mph
Touch-down	90 mph

HVAR 5-INCH ROCKETS

Gunsight Gyro Power (CL)	ON
Gunsight Brightness (CL)	As des.
Gunsight Mode (CL)	FIXED
Gun, Camera & Sight	GUNS
Weapon Mode selector	ROCKETS
Rockets Firing mode	SINGLE / AUTO
Rockets counter	SET
Rockets fuze delay	DELAY / INST

BOMBS (M64 - 500 LBS)

Gunsight Gyro Power (CL)	ON
Gunsight Brightness (CL)	As des.
Gunsight Mode (CL)	FIXED
Gun, Camera & Sight	GUNS
Weapon Mode selector	BOTH / TRAIN

Both: 2 bombs | Train: 1 bomb

Bomb arming switch	ARM
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ATTACK PROFILES (BOMBS / ROCKETS / GUNS)

Wing line	Entry alt.	Entry speed	Approach time (sec)	Lead (mils)	Firing range
20°	2000 ft	250 mph	16/14/13	107/0/0	1300 ft
35°	3500 ft	240 mph	16/14/13	107/0/0	1800 ft
50°	5000 ft	230 mph	16/14/13	107/0/0	2400 ft
70°	7000 ft	230 mph	16/14/13	107/0/0	3600 ft
110°	11000 ft	220 mph	16/14/13	107/0/0	4900 ft