

P-51D "Mustang" Start-Up Procedure

P-51D Start-up Checklist	Long Start-up
Set FLAPS to UP	L Arm
Carburetor Ram Air Control Lever to RAM AIR	L Arm
Carburetor Hot Air Control Lever to NORMAL	L Arm
Set RUD TRIM to 6° RIGHT *	L Arm
Set ELEV TRIM to 2° NH / 4° NH	L Arm
Set MIXTURE to IDLE CUT-OFF	L Arm
Set PROP RPM to FULL	L Arm
Crack THROTTLE Open (1 inch)	L Arm
Gun Sight BRIGHTNESS to BRIGHT	L Brow
Gun Sight GYRO PWR to ON	L Brow
Gun Sight MODE to FIXED	L Brow
Set PARKING BRAKE to ON	Center
Set FUEL SHUT_OFF to ON	Center
Set FUEL SELECTOR to MAIN TANK LH	Center
Set FUEL BOOSTER to ON	LF
Set IGNITION to BOTH	Center
Set BAT DISC to ON	RF
Set GEN DISC to ON	RF
Set RAC OIL to AUTO	L Arm
SET RAC COOLANT to AUTO	L Arm
Hold PRIMER to ON (3-4 sec)	HOTAS
Call "Clear Prop!"	
Hold STARTER to ON (<15 sec)	HOTAS
<i>- Prop spooling</i>	
Hold PRIMER to ON (w/ STARTER for 2-3 sec)	HOTAS
<i>- Prop spins & Eng coughs</i>	
Set MIXTURE to RUN	L Arm
Set THROTTLE to IDLE	HOTAS
Uncage ATT IND	LF
Set RADIO XMT-RCV to REM	R Arm
Select RADIO CHAN A / B / C / D	R Arm
Set O2 MIX to NORMAL	RH
<i>- O2 FLOW INDICATOR is flashing</i>	<i>RF</i>
<i>- FLAPS raised by hydraulic pressure</i>	<i>Wings</i>
<i>- OIL PRESS ≥ 60 psi</i>	<i>RF</i>
Set THROTTLE to 1000 - 1200 rpm	HOTAS
<i>- OIL TEMP ≥ 15° C</i>	<i>RF</i>
<i>- COOLANT TEMP ≥ 60° C</i>	<i>RF</i>
Close CANOPY	RH
Release Parking Brk	PEDALS
<i>- Taxi at 10-15 mph</i>	
<i>- Stick back to lock tailwheel</i>	
<i>- Turn using wheel brakes</i>	

** I have found a much smoother takeoff can be achieved with 8° of right rudder and immediately resetting trim [Left CTRL+T] when weight is off wheels.*

At TAKE-OFF	
Set FLAPS to UP / 10-20 deg	L Arm
<i>- Verify correct TRIM</i>	<i>L Arm</i>
Set PROP RPM to FULL	LH
<i>- Tailwheel is straight and locked</i>	<i>Stick</i>
Engage WHEEL BRAKES	Pedals
Set THROTTLE to 35 Hg MAN PRESS	HOTAS
Disengage WHEEL BRAKES	Pedals
Set THROTTLE to 61 Hg MAN PRESS	HOTAS
<i>- Maintain aft STICK</i>	<i>Stick</i>
Steer with RUDDER and Torque	Pedals
Center STICK at 100 mph	Stick
Rotate at 120 mph	Stick
Retract GEAR	LH
Adjust MAN PRESS to 46 Hg	HOTAS
Adjust RPM to 2700 with PROP RPM	HOTAS