

T-41C Checklist

Preflight Checklist

INTERIOR

Required Documents Check (ARROW)
Hobbs & Tach Time Check & Record Times
Flight Control Lock Remove
Radios & Electrical Equipment **OFF**
Circuit Breakers Check
Magneto Switch **OFF**
Master Switch **OFF**
Aux Fuel Pump Switch Guarded
Primer Locked
Fuel Shut-Off Knob In
Fuel Selector Both
Master Switch **ON**
 Fuel Gauges Check quantity
 Flaps Lower to down position
 Lights (Landing, Nav, Strobes) Check - then **OFF**
Master Switch **OFF**
Trim Set for takeoff
Loose Articles Secure

EXTERIOR

Left Wing Fuel Quick Drain Sump Drain & Sample
Baggage Door Locked
Left Fuselage Check
Static Port Check
Battery Drain Check
Stabilizer, Elevator & Rudder Check
Tail Tie Down Remove
Right Fuselage Check
 Static Port Check

Right Wing

Flap & Aileron Check (rollers, hinges, weights)
Wing Tip, Nav Light & Leading Edge Check
Tie Down Remove
Tire, Brake, & Gear Check - inflation/wear
Tire Chock Remove
Fuel Quick Drain Sump Drain & Sample
Fuel Tank Quantity Check - Secure fuel cap

Preflight Checklist (cont)

Windshield Clean
Fuel Main Sumps Sample both under engine
Right Side Nose Strut & Tire Check - inflation/wear
Cowling, Intakes, Prop & Spinner Check
Left Nose Strut & Tire Check - inflation/wear
Engine Compartment Check
Oil Level 6 - 8 qts
Oil Cap & Access Door Secured

Left Wing

Fuel Tank Quantity Check - Secure fuel cap
Pitot Tube Check
Stall Warning Check
Fuel Vent Check
Taxi/Landing Light Check
Tie Down Remove
Leading Edge, Wing Tip & Nav Light Check
Aileron & Flap Check (rollers, hinges, weights)
Tire, Brake, & Gear Check - inflation/wear
Tire Chock Remove
Interior Fuel Strainer Pull - check / 3 sec
Walk Around Airplane as Final Check

Before Starting Engine

Seats Belts & Shoulder Harness Fasten & Adjusted
Doors Closed & Latched
Radios & Electrical Equipment **OFF**
Parking Brake Set (if desired)

Starting Engine

Mixture	Full Rich
Primer	Locked
Navigation Lights	ON
Master Switch	ON
Aux Fuel Pump Switch.....	ON High to 8 - 10 gal/hr
Aux Fuel Pump Switch.....	Guarded
Throttle	Open 1/4 - 1/2 inch
Propeller Area.....	"CLEAR"
Brakes.....	Hold
Magneto Switch.....	Start
Throttle	1000 - 1200 RPM
Oil Pressure.....	Check
Ammeter	Check
Flaps	Up - Visually check
Radios & Electrical Equipment	ON & Set
Transponder.....	Standby
Altimeter	Set
Heading Indicator	Set
Artificial Horizon.....	Set
Magnetic Compass.....	Check

Taxi Checks

Radio	Transmit for Operation
Flight Controls.....	Position for wind
Brakes.....	Test on initial taxi
Instruments	Check for correct movement

Engine Runup

Nose Wheel	Face wind & center nose wheel
Brakes.....	Hold
Doors & Windows.....	Closed & Latched
Trim.....	Takeoff position
Fuel Selector.....	Both
Throttle	1800 RPM
Magnetos	150 RPM - Max magneto drop
.....	50 RPM - Max differential drop
Mixture	Lean then Full Rich
Suction	Check (4.6 - 5.4 inches)
Ammeter	Check
Engine Instruments.....	Check (Oil Pressure/Temp)
Throttle	Idle - then 1000 - 1200 RPM
Flight Controls.....	Freedom of movement
Flight Instruments.....	Re-check & set
Attitude Indicator	Check
Heading Indicator	Check
Altimeter	Check
Radios & Nav Aids	Set & Checked

Before Takeoff

Throttle Friction.....	Adjust
Seat belts & Harness	Check
Doors & Windows.....	Closed and Latched
Flaps	Up (or as required - 10°)
Fuel Selector.....	Both
Mixture	Full Rich
Transponder.....	Set to (Alt)
Landing Light	ON (if desired)
Strobe Light.....	ON
Radio	Broadcast Intentions
Heading Indicator	Runway heading
Flight Controls.....	Position for wind
Takeoff Time	Note & Log

Normal Takeoff & Climb

Trim..... Takeoff position
Flaps.....Up (or as required - 10°)
Mixture Full Rich
Throttle Full Open
Elevator Control..... Lift Nose @ 50 - 60 mph
Climb Airspeed 95 - 100 mph

Short Field Takeoff

Flaps.....10 degrees
Brakes..... Apply
Mixture Full Rich
Throttle Full Open
Brakes..... Release
Elevator Control..... Lift Nose @ 50 - 60 mph
Climb Airspeed70 mph until obstacle cleared
..... then accelerate to 85 mph
..... to normal climb airspeed
Flaps..... Retract slowly

Soft Field Takeoff

Flaps.....10 degrees
Mixture Full Rich
Elevator.....Full back position
Brakes..... None - rolling from taxi
Throttle Full Open
Ground RollHold nose wheel off runway
Elevator Control..... Remain in ground effect until V_x
Climb Airspeed (70 mph) until obstacle cleared
..... then V_y (100 mph) or Normal climb
Flaps..... Retract slowly

Enroute Climb

Airspeed 100 mph
Throttle Full Open
Landing Light.....OFF

Cruise Checklist

Fuel Selector Both or on fullest tank
Engine Instruments Check
Throttle 2400 - 2500 RPM
Mixture Rich below 3000 ft
..... Lean above 3000 f
Elevator Trim Adjust

Descent Checklist

Fuel Selector Both
Engine Instruments Check
Mixture Full Rich
Throttle 2000 - 2200 RPM

Landing Checklist

Seats, Belts & Harness Fasten & Adjusted
Landing Light **ON**
Fuel Selector Both
Mixture Full Rich
Flaps As required
Airspeed
 Flaps Up 80 - 85 mph
 Flaps 40 Degrees 65 - 70 mph
Touchdown Main wheels first
Brakes Minimum required

Short Field Landing

Final Approach Airspeed
 Utility Category 65 mph
 Normal Category 75 mph
Flaps 40 Degrees
Power Idle after over obstacle
Touchdown Main wheels first
Brakes Apply heavily
Flaps Retract immediately

Soft Field Landing

Final Approach Airspeed.....
Utility category..... 65 mph
Normal category 75 mph
Flaps..... Full Down
Power 1200 -1500 RPM
Touchdown..... Smoothly at minimum descent rate
Landing Ground Roll Hold nose wheel off runway
Taxi Power and full back elevator

Balked Landing (go around)

Throttle Full Open
Flaps..... Retract to 20 degrees
Climb Airspeed 70 mph (Vx) or 100 mph (Vy)
Flaps..... Slowly retract after 85 mph airspeed

After Landing Checklist

Flaps..... Up
Nonessential Electrical Equip..... OFF
Transponder..... OFF
Landing Light..... OFF
Trim..... Take-off Position
Flight Controls..... Position for Wind

Shutdown Checklist

Parking Brake If required
Throttle Idle - Mag grounding check
Throttle 1200 RPM
Electrical Equipment..... OFF (except Nav Lights)
Mixture Idle - Cut-off
Magneto Switch OFF
Master Switch OFF
Fuel Selector..... Left or Right

Securing Aircraft

Flight Control Lock.....	Installed
Main Wheels	Chocked
Wing & Tail Tie downs	Attached
Engine Plug Covers	Installed
Pitot Cover	Installed
Hobbs & Tach Times.....	Recorded
Fuel & Oil Servicing.....	Recorded
Seat belts & Harness	Stowed
Door & Window	Locked
Baggage Door	Locked

T-41C Aircraft Information

(All speeds in MPH)

Rotate (Vr)	50-60
Best Rate of Climb (Vy).....	100
Best Angle of Climb (Vx)	
10 ⁰ Flaps	70
Flaps Up85	
Maneuvering Speed (Va)	
At 2500 lbs	129
Best Glide Speed	85
Stall Speed	
Power Off, Flaps Up (V _{st}).....	60-64
Power Off, Flaps 40 ⁰ (V _{so}).....	49-53
Approach Speed	
Flaps Up	85
Flaps 20 ⁰ 80	
Flaps 40 ⁰	75
Maximum Flaps Extended Speed (Vfe)	100
Maximum Structural Speed (Vno).....	145
Never Exceed Speed (Vne)	182
Maximum Takeoff Weight	
Normal Category	2500 lbs
Utility Category.....	2200 lbs
Full Oil	8 qts
Fuel	
Full	52 gal
Useable	46 gal
Maximum Gross Weight (MGW).....	2500 lbs
HP.....	210 HP
Maximum Crosswind	
15 kts	(flaps 0° – 20°)
10 kts	(flaps >30°)

