

Before Start

| | |
|----------------------------------|---------------|
| Tie down release | Chains OFF |
| Landing/Taxi Light | Working |
| NAV Lights | Working |
| Strobe/Beacon | Working |
| Flashlight | Available |
| Pitot Heat | Chk heating |
| Logbook | Chk Tach time |
| Seat/Shoulder Belts | ON |
| Brief Passengers | Belts/Elect |
| Fuel Shut-off valve Handle | BOTH |
| Parking Brake | Release |
| Brakes | Check/SET |
| Avionics Master Switch | OFF |
| Transponder | STANDBY |
| Cabin Doors | Latched down |
| Elevator Trim Tab | Set Takeoff |
| Circuit Breakers | All IN |
| Timer | Reset |

Engine Start

| | |
|------------------------------|-------------|
| Carb Heat | COLD |
| Mixture | Full Rich |
| Primer | Locked |
| Throttle | 1-2 strokes |
| Master Switch | ON |
| Beacon/strobe lights | ON |
| Propeller Area | CLEAR |
| Ignition Switch | Start |
| Oil Pressure | Check/green |
| Master Avionics Switch | ON |

Pre-Taxi

| | |
|-------------------------------|-------------|
| Altimeter | Set |
| Altimeter Error | Check |
| Marker beacon Lights | Test |
| Marker beacon audio | Set volume |
| Alternate Static Source | Check |
| NAV Radios | Set |
| Com Radios | Set |
| GPS | Set |
| Heading Gyro | Initial Set |
| Clearance request | Requested |
| Comm Radio | Ground |

Taxi Check

| | |
|---------------------------|-----------------|
| Interior/Dome Light | Check |
| Compass | Check |
| VSI | Check error |
| Attitude Indicator | Stable/Set |
| Turn Coordinator | Check |
| Transponder | Set ATC or 1200 |

Runup

| | |
|-----------------------------|---------------------|
| Throttle | 1700RPM |
| 1. Engine Instruments | Check/green |
| 2. Suction Gauge | 4.6 to 5.4 |
| 3. Magnetos | <125rpm <50diff |
| 4. Carb Heat | Check |
| Throttle | IDLE |
| Friction lock | Set |
| Ammeter | Check |
| Heading Gyro | Final set and check |
| Attitude Indicator | Check - Stable |
| Flaps | Check UP / 0% |
| Flight controls | Check |
| Transponder | ON to ALT |
| Comm Radio | Tower |
| Time OFF | Note |

At Final Approach Fix

| | |
|--------------------------------|----------------|
| Heading Gyro | Set to compass |
| Passenger Briefing | Belts, etc |
| Landing Light (in clear) | ON for safety |
| Carb Heat | ON |
| GUMP | Complete |

ShutDown, Parking and Securing

| | |
|------------------------------|-------------|
| Transponder | Stdb, 1200 |
| Avionics Master Switch | Off |
| Lights/Beacon/Strobe | Off |
| Mixture | Idle/Cutoff |
| Ignition/Master Switch | Off |
| Logbook | Enter Time |

Slow Cruise

| | |
|----------------|------|
| 80K (no flaps) | 2100 |
| 80K (10 flaps) | 2200 |

Stall-0 flaps 50K

Stall - 40 flaps 40K

Rotate 53K

V_X (best angle) ... 59K

V_Y (best rate) 73K

500 ft/Min Descent

80K (no flaps) 1600

80K (10 flaps) 1700

Land - 0 flaps 60-70K

Land w/flaps 60K

V_{NE} 160K

V_A (manuv) 97-80K

V_{FE} 10 flaps 110K

V_{FE} 30 flaps 85K

Fuel ~ 8 gph
Oil 6 max

Empty/Useful 1445.4/854.6

Gross Weight 2300 lbs

Usable Fuel Total 40g

N737TY - C172