

PRE-START

- Park Brake **ON**
- Doors **CLOSED**
- Circuit Breakers **CHECK**
- Master Switch **ON**
- Fuel Selector **ON**
- Primer **STROKE x2**
if engine is COLD, prime
- Fuel Mixture **RICH**
- Throttle **1/4" OPEN**
- Magnetos **BOTH**
- Avionics **OFF**
- Propeller Area **CHECK**
- "Clear Prop" **ANNOUNCE**
- Starter **ENGAGE**

AFTER START

- Oil Pressure **RISING/GREEN**
- Throttle **1000 RPM**
- Avionics **ON**

SYMBOLS

- Δ Difference
- | OR
- & AND
- ≤ Less than or equal to
- ≥ Greater than or equal to

RUN-UP

- Oil Temp **IN GREEN**
- Park Brake **ON**
- Throttle **1700 RPM**
- Vacuum Gauge **CHECK**
- Ignition R CHECK **≤125 RPM**
- Ignition L CHECK **≤125 RPM**
- Ignition R/L **Δ ≤50 RPM**
- Carb Heat **ON→OFF (RPM drop)**
- Ammeter **CHECK CHARGE**
- Idle CHECK **≥600 RPM**
- Throttle **1000 RPM**

PRE TAKE-OFF

- Trim **SET TKOF**
- Mixture **RICH**
- Prop Pitch **FULL FINE**
- Flight CTRL **FREE&CORRECT**
- Flaps **SET TKOF 10°**
- Fuel **ON&SUFF QTY**
- Instruments **CHECK**
- Switches **AS REQ**
- Hatches & Harnesses **CHECK**
- T/O Safety/DEP/TEM **BRIEF**

HOLDING READY

- Lights **STROBE ON**
- Camera **XPDR 3000 ALT**
- Action **READY, REQ CLR**

PRE LANDING

- Brakes **PRESSURE&OFF**
- Undercarriage **DOWN&LOCKED**
- Mixture **RICH**
- Fuel **ON&SUFF QTY**
- Instruments **CHECK**
- Switches **AS REQ**
- Hatches & Harnesses **CHECK**

AFTER LANDING

- Flaps **0°**
- Lights **OFF**

SHUT DOWN

- Park Brake **ON**
- Trim **SET TKOF**
- Throttle **MIN RPM**
- Avionics **OFF**
- Fuel Mixture **IDLE CUTOFF**
- Magnetos **OFF**
- Master Switch **OFF**

AFTER SHUT DOWN

- MR **if last FLT of day CLOSE**
- Hobbs/Tach **REC BOOK**
- Hobbs/Tach **REC OFFICE**
- Aircraft **SECURE**

EMERG FORCED LDG

- Aviate, Navigate, Comm.
- Best Glide **60KIAS**
- Troubleshoot **F.A.S.T.**
- Fuel primer **LOCKED**
- Fuel selector **BOTH**
- Air **CARB HEAT ON**
- Switches **ON**
- Throttle **CYCLE**
- Turn over **ENGINE START**
- Field **SELECT**
- Wind
- Obstacles
- Size
- Shape
- Surface
- Slope
- Sun
- Shoos
- Surroundings/Buildings
- Communicate **MAYDAY**
- Passenger **BRIEF**
- Aircraft **SECURE**

- Max Glide Ratio **3NM/2000ft**
- Wind **NIL**
- Flaps **RETRACTED**
- Propeller **WINDMILLING**

STALL ENTRY

- Clearing Turn **AS REQ**
- Height **RECOVER ≥3000 AGL**
- Aircraft **CONFIG, TRIM**
- Security **HARNESS, OBJECTS**
- Engine **OPS NORMAL, P/T**
- Location **UNPOPUL, FLD AVBL**
- Lookout **TRAFFIC**
- Listen **CHECK FREQ**

SPEEDS & LIMITS

- Vne **149KIAS**
- Vno **111KIAS**
- Va_{1670lb} **104KIAS**
- Va_{1500lb} **98KIAS**
- Va_{1350lb} **93KIAS**
- Vfe **85KIAS**
- Vs0 **35KIAS**
- Vs1 **40KIAS**
- Vx **55KIAS**
- Vy **67KIAS**
- Best Glide **60KIAS**
- Max crosswind **12KT**
- Load Factor_{cruise} **+4.4G/-1.76G**
- Load Factor_{flaps} **+3.5G**
- Max Window Open **143KIAS**
- Service Ceiling **14700ft**
- MTOW **1670lb/757kg**
- MRW **1677.9lb/760.6kg**

FREQUENCIES

- YBAF ATIS **120.90MHz**
- YBAF SMC/GND **119.90MHz**
- YBAF TWR (NORTH) **123.60MHz**
- YBAF TWR (SOUTH) **118.10MHz**
- YBAF CTAF **118.10MHz**
- YBAF AWIS **128.40MHz**
- YBAF PAL **118.10MHz**
- BN CEN Train. **125.70MHz**
- BN CEN 45NM N. **129.00MHz**
- BN CEN 14NM S. **119.50MHz**
- YHEC CTAF **119.00MHz**
- YAMB ATIS **123.30MHz**
- GEN Air Distress **121.50MHz**

ENGINE & FUEL

- Model Avro Lycoming **0-235-L2C**
- Max Power **110BHP@2550RPM**
- Max RPM **2550RPM**
- Displacement **233.3in³/3.82L**
- Block Fuel Burn **25L/hr**
- Hold Fuel Burn @ 55% **17L/hr**
- Taxi fuel allowance **5L**
- Min VFR Reserve **30min**
- Total Fuel **26.0USG/98.4L**
- Usable Fuel **24.5USG/93.0L**
- Fuel Type **AVGAS100LL**
- Max Oil QTY **6QT/5.7L**
- Min Oil Pressure **25psi**
- Max Oil Pressure **100psi**

VH-NKJ

WEIGHT & BALANCE

- MTOW **1670 lb**
- MTOW **757 kg**
- MRW **1677.9 lb**
- MRW **760.6 kg**
- BEW **1176.8 lb**
- BEW **533.8 kg**
- Max load@full fuel **344.45 lb**
- Max load@full fuel **156.24 kg**
- Max Area 1 **120 lb**
- Max Area 1 **54 kg**
- Max Area 2 **39.7 lb**
- Max Area 2 **18 kg**
- Max Area 1+2 **120 lb**
- Max Area 1+2 **54 kg**
- Arm **30.8 in**
- Arm **783 mm**
- Moment **36290 lb/in**
- Moment **418059 kg/mm**

Example @ MRW 760.6 kg	
BEW	533.8 kg
Row 1	130 kg
Area 1	20 kg
Area B	9.5 kg
Usable Fuel	66.96 kg
	93.0 L
	24.5 USG
TOTAL	760.26 kg

CRUISE PERFORMANCE

Altitude	2400 RPM			2300 RPM			2200 RPM			2100 RPM		
	KTAS	L/hr	NM/L	KTAS	L/hr	NM/L	KTAS	L/hr	NM/L	KTAS	L/hr	NM/L
2000	101	23.2	4.35	96	20.5	4.68	91	18.2	5.00	86	16.3	5.28
4000	101	21.7	4.65	95	19.4	4.90	90	17.5	5.14	85	16.0	5.31
6000	100	20.5	4.88	95	18.6	5.11	89	16.7	5.33	84	15.2	5.53
8000	99	19.8	5.00	94	17.9	5.25	89	16.3	5.46	83	14.8	5.61
10000	98	19.0	5.16	93	17.1	5.44	88	16.0	5.50	82	14.8	5.54
12000	97	18.2	5.33	92	16.7	5.51	87	15.6	5.58	81	14.4	5.63

ISA, 1670lb, nil wind, speed fairings (else -2kt), mixture lean

Source: Cessna 152 Flight Manual 5-14

RANGE PROFILE

Altitude	75% power			65% power			55% power			45% power		
	NM	KTAS	Min	NM	KTAS	Min	NM	KTAS	Min	NM	KTAS	Min
0	343	100	205	372	94	237	403	87	280	430	77	336
2000	345		204	373		236	404		278	428		333
4000	346	103	204	374	97	235	404	89	276	427	78	329
6000	348		203	375		233	404		274	422		324
8000	350	107	202	376	100	232	404	91	271	419	79	319
10000	366		218	377		228	402		266	413		313

ISA, 1670lb, nil wind, speed fairings (else -2kt), mixture lean

Allows for engine start, taxi, take-off, climb, 45 min reserve

Source: Cessna 152 Flight Manual 5-15, 5-17