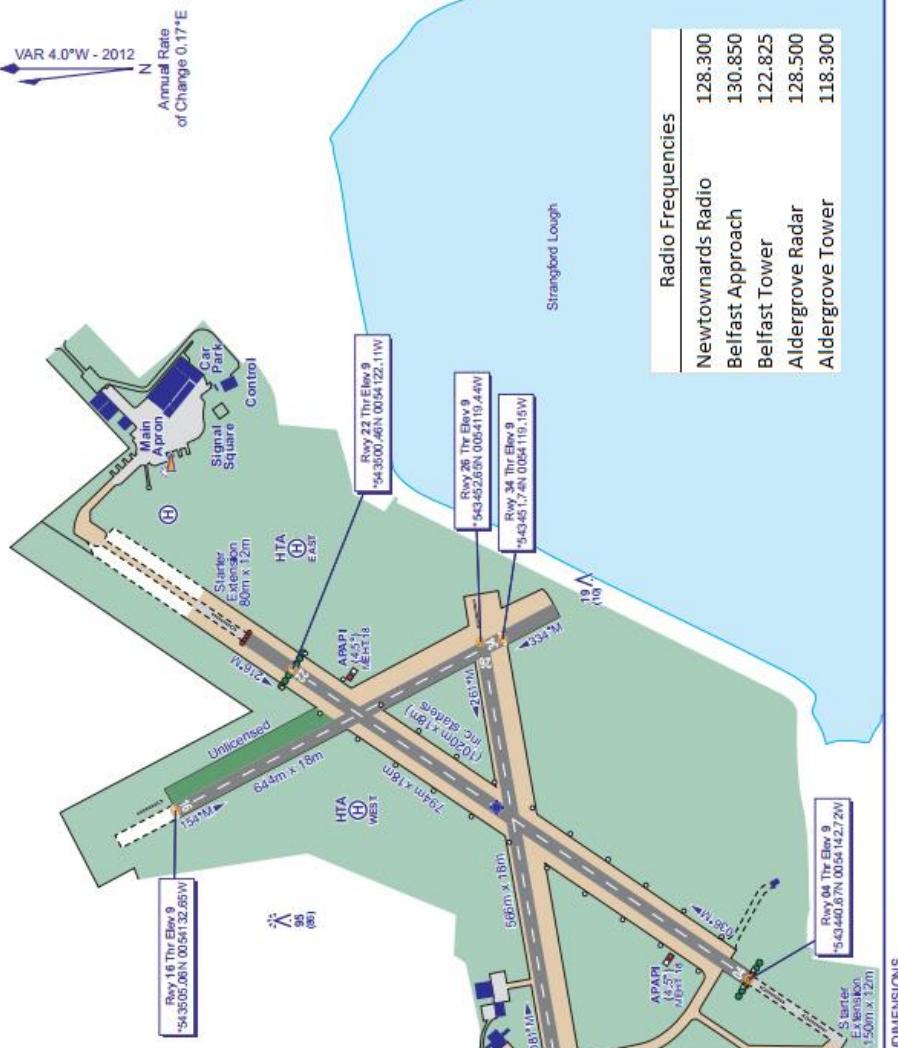


BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL HEIGHTS IN FEET ABOVE AD	(86)
95 (86)	

0 50 100 150m
500m



AERO INFO DATE 20 APR 12



CESSNA 152

NORMAL & EMERGENCY PROCEDURES CHECKLIST

AIRSPEEDS FOR NORMAL OPERATION

The following indicated airspeeds in knots (KIAS) are based on a maximum weight of 1670 pounds & may be used for any weight below this figure.

TAKE OFF

Initial Climb -----	65 Kts
Short Field – Flap 10° -----	54 Kts @ 50 ft AGL

ENROUTE CLIMB (Sea Level, Flaps Up)

Normal -----	75 Kts
Best Rate of Climb -----	61 Kts
Best Angle of Climb -----	55 Kts

LANDING APPROACH

Normal – Flaps 30° -----	60 Kts
Normal – Flaps 20° -----	65 Kts
Flaps Up -----	65 Kts
Short Field – Flaps 30° -----	54 Kts

BEST GLIDE – FLAPS UP -----	65 Kts
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GO AROUND

Max Power Flaps 20° -----	55 Kts
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CROSSWIND VELOCITY

Maximum Demonstrated -----	12 Kts
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PRE-FLIGHT INSPECTION:

INTERNAL

Aircraft Position -----	CHECK OBSTRUCTIONS
Parking Brake -----	SET
Control Wheel Lock -----	REMOVE AND STOW
Control Wheel -----	CHECK FULL, FREE & CORRECT MOVEMENT
Ignition Switch -----	OFF, KEY REMOVED
Instruments -----	CHECK
Radio & Avionics -----	OFF
Fuel Selector Valve -----	ON
Elevator Trim -----	CHECK SET NEUTRAL (Full movement nose up/down)
Master Switch -----	ON
Fuel Quantity Indicators -----	CHECK QUANTITES
Anti-Collision Beacon -----	ON - CHECK OPERATION
Flaps -----	EXTEND
Pitot Heat -----	ON for 30 seconds then OFF
Master Switch -----	OFF
First Aid Pack -----	CHECK
Fire Extinguisher -----	CHECK

PRE-FLIGHT INSPECTION:**EXTERNAL****PORT WING**

Pitot -----	WARM, UNOBSTRUCTED
Flap -----	CHECK (Tracks & Linkage)
Aileron -----	CHECK (Hinges, Linkage & full free movement)
Wing & Control Surface -----	UNDAMAGED
Navigation Light & Fairing -----	UNDAMAGED
Stall Warning Opening -----	CHECK OPERATION
Fuel Tank Vent -----	UNOBSTRUCTED
Fuel Drain Valve -----	CHECK
Fuel Quantity -----	CHECK WITH DIP STICK
Fuel Filler Cap -----	SECURE
Undercarriage -----	CHECK (Strut, brakes & no hydraulic leak)
Tyre -----	CHECK (Undamaged, Inflated, alignment of creep mark)

NOSE

Static Source -----	UNOBSTRUCTED
Tyre -----	CHECK (Undamaged, Inflated, alignment of creep mark)
Nose Wheel Strut -----	CHECK] (Oleo extension 2"-3", torque linkage secure)

PRE-FLIGHT INSPECTION:**EXTERNAL (continued...)****NOSE (Continued...)**

Landing & Taxi Lights -----	CHECK (Condition & Clean)
Air Filter -----	UNOBSTRUCTED
Engine Cooling Inlets -----	UNOBSTRUCTED
Alternator Drive Belt -----	SECURE
Propeller & Spinner -----	CHECK (Leading edge & Tips undamaged, Spinner secure)
Fuel Strainer Drain Valve -----	CHECK
Engine Oil -----	CHECK (Oil level min 4 quarts, extended flight 6 quarts)
Oil Filler Cap -----	SECURE
Windscreen -----	CLEAN

STARBOARD WING

Fuel Quantity -----	CHECK WITH DIP STICK
Fuel Filler Cap -----	SECURE
Fuel Drain Valve -----	CHECK
Wing & Control Surfaces -----	UNDAMAGED
Navigation Light & Fairing -----	UNDAMAGED
Aileron -----	CHECK
Flap -----	CHECK

PRE-FLIGHT INSPECTION:

EXTERNAL (continued...)

STARBOARD WING (Continued...)

Undercarriage ----- CHECK
 (Strut, brakes & no hydraulic leak)

Tyre ----- CHECK
 (Undamaged, Inflated, alignment of creep mark)

FUSELAGE & TAILPLANE

Antennas ----- CHECK SECURITY

Tailplane & Elevator ----- CHECK
 (Hinges & Linkage, full free movement)

Trim Tab ----- CHECK NEUTRAL

Rudder & Fin ----- CHECK
 (Gust lock removed, hinges & linkage, full free movement)

Navigation Light ----- UNDAMAGED

PRE ENGINE START

Aircraft Documentation ----- CHECKED

Flight Authorisation ----- COMPLETED

Weight & Balance ----- WITHIN LIMITS

Pre-flight Inspection ----- COMPLETE

Passenger Briefing ----- COMPLETE
 (Exits, seats & seat belts, first aid kit, extinguisher, life jackets if required)

Seats & Belts ----- ADJUSTED AND SECURE

PRE ENGINE START (continued...)

Cabin Doors ----- CLOSED & LOCKED

Parking Brake ----- SET

Fuel Selector Valve ----- ON

Circuit Breakers ----- IN

All Radio & Avionics ----- OFF

STARTING ENGINE

Throttle ----- OPEN $\frac{1}{4}$ INCH

Mixture ----- RICH

Master Switch ----- ON

Anti-Collision Beacon ----- ON

Navigation Lights (Night Only) ----- ON

Primer ----- OPERATE AS REQUIRED
 (Nil HOT / 1-2 WARM / 3-4 COLD)

Primer ----- LOCKED

Propeller Area ----- CLEAR

Ignition Switch ----- START
 (Then release when started)

Mixture ----- IDLE
Throttle ----- OPEN HALF-FULL
Ignition switch ----- START (Then release when started)
When Engine fires ----- MIXTURE FULLY RICH AND RETARD THROTTLE

AFTER ENGINE START

RPM -----	SET 1200
Starter Warning Light -----	EXTINGUISHED
Oil Pressure -----	CHECK
Suction -----	WITHIN LIMITS
Ammeter -----	WITHIN LIMITS
Low Voltage Warning Light -----	EXTINGUISHED
Magneton -----	CHECK FOR DEAD CUT
Flaps -----	UP (Check even operation)
Radios & Avionics -----	ON & SET
Radio -----	OBTAIRFIELD DATA
Flight Instruments -----	CHECK AND SET
Taxi Light (Night only) -----	ON (If required)

ENGINE POWER CHECK

Location -----	AREA CLEAR IN FRONT AND BEHIND
Parking Break -----	SET
ENSURE ENGINE WARM UP PERIOD	
RPM -----	SET 1700
Engine Temperature & Pressure -----	WITHIN OPERATING LIMITS
Carburettor Heat -----	OPERATE check revs drop SET COLD
Magneton -----	RIGHT – BOTH – LEFT – BOTH (Max drop on each mag. 125 RPM) (Max difference between mags 50 RPM)
Suction -----	WITHIN LIMITS
Ammeter -----	WITHIN LIMITS
Throttle -----	CLOSE 500-600 RPM (Then ensure engine accelerates smoothly to 1200 RPM)

PRE ENGINE START

Lookout -----	CHECK ALL ROUND
Brakes -----	CHECK
Rudder -----	CHECK FULL & FREE
Instruments / ADF -----	CHECK

PRE TAKEOFF

Throttle Friction Lock -----	ADJUST FINGER TIGHT
Elevator Trim -----	SET FOR TAKEOFF
Mixture -----	RICH
Carburettor Heat -----	OPERATE then SET COLD
Primer -----	LOCKED
Magnetics -----	BOTH
Fuel Quantity -----	SUFFICIENT FOR FLIGHT
Fuel Selector Valve -----	ON
Flaps -----	AS REQUIRED
Seats & Seat Belts -----	SECURE
Doors & Windows -----	CLOSED & LOCKED
Pitot Heat -----	ON (If required)
Instruments & Gauges -----	SET & CHECK
Transponder -----	SET (If required)
Flight Controls ----- (NOT RUDDER)	FULL & FREE MOVEMENT
Brakes -----	OFF

AFTER TAKEOFF

Flaps -----	UP AT 300'
Engine Instruments -----	CHECK
Landing & Taxi Lights -----	OFF
CRUISE	
Fuel Quantity -----	SUFFICIENT
Radios -----	SET
Engine Instruments & Mixture -----	CHECK
Carburettor Heat -----	HOT 20 secs then COLD
Direction Indicator -----	SET
Altimeter -----	SET
PRE LANDING	
Brakes -----	OFF
Carburettor Heat -----	HOT
Mixture -----	RICH
Fuel -----	SUFFICIENT
Flaps -----	AS REQUIRED
Seats & Belts -----	SECURE
Cabin Doors -----	SECURE
Taxi & Landing Lights -----	ON (If required)
Carburettor Heat -----	COLD

AFTER LANDING

VACATE RUNWAY & STOP THE AIRCRAFT

Pitot Heat -----	OFF
Landing Light -----	OFF
Taxi Light -----	AS REQUIRED
Transponder -----	OFF
Flaps -----	UP
Carburettor Heat -----	CHECK COLD

SHUTDOWN

Parking Brake -----	SET
Taxi Light -----	OFF
Magnetics -----	CHECK DEAD CUT
Radios and Avionics -----	OFF
Electrical Equipment -----	OFF
Beacon -----	ON
Throttle -----	CLOSE
Mixture -----	IDLE CUT OFF
Ignition Switch -----	OFF – KEYS OUT
Master Switch -----	OFF
Control Lock -----	INSTALL
Aircraft -----	SECURE as REQUIRED

TAKEOFF DISTANCE

SHORT FIELD

CONDITIONS:

Flaps 10°
Full Throttle Prior to Brake Release
Paved, Level, Dry Runway
Zero Wind

NOTES:

- Short field technique as specified in Section 4.
- Prior to takeoff from fields above 3000 feet elevation, the mixture should be leaned to give maximum RPM in a full throttle, static runup.
- Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

WEIGHT LBS	TAKEOFF SPEED KIAS	PRESS ALT FT	LIFT AT 50 FT	0°C			10°C			20°C			30°C			40°C		
				GRND ROLL	TO CLEAR 50 FT OBS	TOTAL GRND TO CLEAR 50 FT OBS	GRND ROLL	TO CLEAR 50 FT OBS	TOTAL GRND TO CLEAR 50 FT OBS	GRND ROLL	TO CLEAR 50 FT OBS	TOTAL GRND TO CLEAR 50 FT OBS	GRND ROLL	TO CLEAR 50 FT OBS	TOTAL GRND TO CLEAR 50 FT OBS	GRND ROLL	TO CLEAR 50 FT OBS	TOTAL GRND TO CLEAR 50 FT OBS
1670	50	54	S.L.	640	1190	695	1290	755	1390	810	1495	875	1605	975	1770	1055	1960	
			1000	705	1310	765	1420	825	1530	890	1645	960	1770	1055	1960	1055	1960	
			2000	775	1445	840	1565	910	1690	980	1820	1055	1165	1285	1420	1570	1750	
			3000	855	1600	925	1730	1000	1870	1080	2020	1165	2185	1285	1420	1570	1750	
			4000	940	1775	1020	1920	1100	2080	1190	2250	1315	2525	1420	1570	1750	1940	
			5000	1040	1970	1125	2140	1215	2320	1315	2525	1455	2855	1570	1745	1940	2185	
			6000	1145	2200	1245	2395	1345	2610	1455	2855	1615	3255	1745	1940	2185	2440	
			7000	1270	2470	1375	2705	1490	2960	1615	3255	1795	3765	1745	1940	2185	2440	
			8000	1405	2800	1525	3080	1655	3395	1795	3765	1940	4195	1940	2185	2440	2750	

EMERGENCY PROCEDURES

ENGINE FIRE DURING START

Ignition Switch -----	CONTINUE CRANKING ENGINE
Throttle -----	FULLY OPEN
Mixture -----	IDLE CUT OFF
Fuel Selector Valve -----	OFF
Ignition Switch -----	OFF
Master Switch -----	OFF
Parking Brake -----	OFF

EVACUATE THE AIRCRAFT WITH FIRE EXTINGUISHER IN AN UPWIND DIRECTION

ELECTRICAL FIRE IN FLIGHT

Master Switch -----	OFF
Vents, Cabin Heat & Air -----	CLOSED
Fire Extinguisher -----	USE AS NECESSARY (Ventilate cabin after use)
Radio & Avionics -----	OFF
Electrical Switches -----	ALL OFF EXCEPT IGNITION SWITCH

IF FIRE HAS BEEN EXTINGUISHED

Master Switch -----	ON
Circuit Breakers -----	CHECK for faulty circuit – do not reset
Radio / Electrical Switches -----	ON one at a time, with delay after each until short circuit is identified

EMERGENCY PROCEDURES

ELECTRICAL FIRE IN FLIGHT

Airspeed -----	65 kts (Flaps UP) 65 kts (Flaps Down)
Landing Site -----	SELECT SUITABLE AREA
Radio -----	TRANSMIT " MAYDAY "
Mixture -----	IDLE CUT OFF
Fuel Selector Valve -----	OFF
Ignition Switch -----	OFF
Flaps -----	AS REQUIRED
Master Switch -----	OFF
Passengers -----	BRIEF
Cabin Doors -----	UNLATCHED

ENGINE FIRE IN FLIGHT

Mixture -----	IDLE CUT OFF
Fuel Selector Valve -----	OFF
Cabin Heat & Air -----	OFF (Except overhead vents)
Transponder -----	SET CODE 7700
Airspeed -----	100 kts (Until Fire Extinguished)

INITIATE FORCED LANDING – DO NOT ATTEMPT TO RESTART ENGINE

EMERGENCY PROCEDURES

ENGINE FAILURE DURNIG FLIGHT

Airspeed -----	65 kts
Landing Site -----	SELECT SUITABLE AREA INTO WIND
Radio -----	TRANSMIT " MAYDAY "
Transponder -----	SET CODE 7700
Fuel Selector Valve -----	ON
Carburettor Heat -----	HOT
Mixture -----	RICH
Ignition Switch -----	BOTH or START (if propeller has stopped)

ONLY IF ENGINE HAS FAILED TO RESPOND

Mixture -----	IDLE CUT OFF
Fuel Selector Valve -----	OFF
Ignition Switch -----	OFF
Flaps -----	OFF AS REQUIRED
Master Switch -----	OFF
Passengers -----	BRIEF
Seats & Seat Belts -----	SECURE
Cabin Doors -----	UNLATCHED

EMERGENCY PROCEDURES

ENGINE FAILURE DURNIG FLIGHT

Ammeter -----	CHECK INDICATION
Radio & Avionics -----	OFF
Alternator Circuit Breaker -----	CHECK IN
Master Switch -----	OFF (Both Sides) - pause then ON
Low Voltage Warning Light -----	CHECK OFF
Radio & Avionics -----	ON

IF LOW VOLTAGE WARNING CONTINUES

Alternator -----	OFF
Non-essential Radio & Electrical Equipment -----	OFF
LAND -----	As Soon As Safely Possible

With alternator switched off, compass deviations up to 25°

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

(Full Scale Direction)	
Alternator -----	OFF
Non-essential Radio & Electrical Equipment -----	OFF
LAND -----	As Soon As Safely Possible

With alternator switched off, compass deviations up to 25°