



# Aircraft Checklist

MFU - Pilotenclub - LOAV



3fly.at

# OE-KCS

**CESSNA 182T**

MTOM = 1406 kg / 3100 lb

A/C-Size: W: 11.0 m H: 2.9m L: 8.8 m

## FPL (EXAMPLE)

7	A/C ID	OE-KCS
8	Flight Rules	V,I,Y,Z
	Type of Flight	G
9	Type of A/C	C182
	Wake Turbul. Cat.	L
10	Equipment	BDFGLORY/H
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0135
	Flight Level	VFR
	Route	RADLY
16	Destination A/D	LJPZ
	Total EET	0200
	Alternate A/D	LOWG
18	Other Info	EET/RADLY0030
	PBN/B2C2D2O2S2	NAV/SBAS
19	Endurance	0500
	Persons on Bord	1-4
	Emerg. Equipm.	ELT
	A/C Colour	WHITE/RED
	Name PIC	NAME/TEL

## OPERATOR

**MFU Flugvermietung GmbH**

A-2542 Kottingbrunn

Flugplatz 1, Top 1

UID ATU80021129

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## CONTACT

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## FUEL

Fuel AVGAS 100LL

Maximum Fuel 92 USG

Unusable Fuel 5 USG

## OIL

Shell Aero  15W-50

Minimum 5 quarts

Maximum 9 quarts

## TIRE

Front Tire 49 psi

Main Tires 42 psi

## SPEED

V<sub>S0</sub> (Stall- Flaps max) 41 KIAS

V<sub>S1</sub> (Stall- Flaps 0) 51 KIAS

V<sub>G</sub> (best glide/Flaps 0) 76 KIAS

Max. Demo. X-Wind 15 kts

## COM FAIL

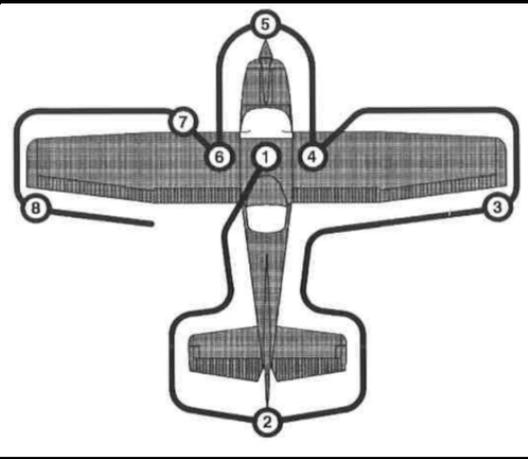
-  Clear to Land
-  Return to Landing
-  Continue Circling
-  A/D unsafe, don't Land
-  Land at this A/D and proceed to Apron - wait for Clearance

Do not Land



 Consult POH/AFM for "Warnings, Cautions and additional Information"

This document does not replace POH/AFM - (KCS 2025 V1.9)

**PREFLIGHT****1 CABIN**

1	Pitot Cover	REMOVE / CHECK
2	POH	ACCESSIBLE
3	G1000 Ref. Book	ACCESSIBLE
4	Mass & Balance	IN LIMITS
5	Parking Brake	SET
6	Control Wheel Lock	REMOVE
7	Magnetos	OFF
8	Avionics BUS 1 & 2	OFF

<b>B A T T E R Y</b>	Master ALT/BAT	ON
	PFD	VERIFY ON
	Fuel Quantity L / R	CHECK
	Low Fuel L / R Annunc.	NOT SHOWN
	Oil Pressure Annunc.	CHECK
	Low Vac. Annunc.	SHOWN
	Avionic BUS 1	ON
	Fwd Fan Noise	CHECK
Avionic BUS 1	OFF	
Avionic BUS 2	ON	

<b>B A T T E R Y</b>	Aft Fan Noise	CHECK
	Avionic BUS 2	Off
	Pitot Heat	ON / CHECK
	Pitot Heat	OFF
	Stall Warning System	CHECK
	Low Volts Annunc.	SHOWN
	Master ALT/BAT	OFF
	26 Trim Elevator & Rudder	TAKEOFF
	27 Fuel Selector	BOTH
	28 Alt. Static Air	PUSH OFF
29 Fire Extinguisher	CHECK	
30 Seats	ADJUST	

**2 EMPENNAGE**

31	Baggage and Door	CHECK
32	Rudder Gust Lock	REMOVE
33	Tail Tiedown	DISCON
34	Ctrl. Surfaces	CHECK
35	Trim Tabs	CHECK
36	Antennas	CHECK

**3 RIGHT WING - Trailing Edge**

37	Flaps	CHECK
38	Aileron	CHECK



**4 RIGHT WING**

39	LDG & Taxi/Reco. Light	CHECK
40	Wing Tiedown	DISCON
41	Fuel Tank Vent	CLEAR
42	Main Wheel Tire	CHECK
43	Fuel Tank 	DRAIN 5x
44	Fuel Quantity Check	VISUALLY
45	Fuel Filler Cap	SECURE
46	Filler Cap Vent	CLEAR

**5 NOSE**

47	Static Port Right	CLEAR
48	Fuel Strainer / Drains	3x DRAIN
49	Engine Inlets	CHECK
50	Prop & Spinner	CHECK
51	Air Filter	CHECK
52	Wheel Strut / Tire	CHECK
53	Oil Level	CHECK
54	Dipstick/Filler Cap	SECURE
55	Static Port Left	CLEAR

**6 LEFT WING**

56	Fuel Quantity Check	VISUALLY
57	Fuel Filler Cap	SECURE
58	Filler Cap Vent	CLEAR
59	Fuel Tank	DRAIN 5x
60	Main Wheel Tire	CHECK

**7 LEFT WING - Leading Edge**

61	Fuel Tank Vent	CLEAR
62	Stall Warning	CHECK
63	Wing Tiedown	DISCON
64	LDG & Taxi/Reco. Light	CHECK

**8 LEFT WING - Trailing Edge**

65	Aileron	CHECK
66	Flaps	CHECK

**BEFORE ENGINE START**

1	Preflight Inspection	COMPL
2	Passenger Briefing	COMPL
3	Seats / Seat Belts	ADJUST/LOCK
4	Brakes	TEST & SET
5	Circuit Breakers	CHECK IN
6	Electr. Equipment	OFF
7	Avionic BUS 1 & 2	OFF
8	Cowl Flaps	OPEN
9	Fuel Selector Valve	BOTH
10	Tow Bar	STOWED



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**ENGINE START**

1	Throttle	6 mm OPEN
2	Propeller	FULL FWD
3	Mixture	IDLE CUTOFF
4	STBY Batt	TEST 10 SEC
5	Green Test Lamp	VERIFY ON
6	STBY Batt	ARM
7	Eng. Indic. System	CHECK
8	No Red X Eng. Ind.	VERIFY
9	Bus E: min. 24 Volts	CHECK
10	M Bus: < 1.5 Volts	CHECK
11	BATT S Amps	DISCHARGE
12	STBY BATT Annunc.	CHECK/SHOWN
13	Propeller Area	CLEAR
14	Master ALT / BAT	ON
15	Beacon	ON
<b>COLD ONLY</b>	Fuel Pump 	ON
	Mixture 	4-6 SEC RICH
	Mixture	IDLE CUTOFF
	Fuel Pump	OFF
	20	Ignition
21	Mixture w. Fires Smoothly	RICH
22	Oil Press. < 30 sec	IN GREEN
23	Amps M BATT	CHARGE
24	Amps BATT S	CHARGE
25	Low Volts Annunc.	CHECK OFF
26	Nav Lights	AS REQ
27	Avionics BUS 1 & 2	ON
28	Taxi Lights	RECOGNITION
29	G1000 Nav Data	CHECK
30	Taxi Leaning Ops.	EXECUTE

**ENGINE START Contd.**

<b>TAXI</b>	Brakes L & R	CHECK
	Flight Instruments	CHECK

**FLOODED ENGINE START**

1	Fuel Pump	OFF
2	Mixture	IDLE-CUTOFF
3	Throttle	1/2 - FULL
4	Ignition	START
5	Mixture w. Fires Smoothly	RICH
6	Throttle	1000 rpm

**FUEL VAPOR PROCEDURE**

1	Brakes	SET
2	Mixture	FULL RICH
3	Set Throttle RPM	1800-2000
4	Maintain Power	2 MINUTES
5	Smooth Engine Run	CHECK
6	Set Throttle	IDLE
7	Smooth Engine Run	CHECK
8	Fuel Pump	AS REQU
9	Taxi Leaning Ops.	EXECUTE

**ALL TAXI LEANING OPS**

1	Brakes	SET
2	Set Throttle RPM	1200
3	Lean Mixture 	MAX RPM
4	Set Throttle RPM	700-900
5	Brakes	RELEASE

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**ENGINE START - Ext. Power**

1	Throttle	6 mm OPEN
2	Propeller	FULL FWD
3	Mixture	IDLE CUTOFF
4	STBY Batt	TEST 10 SEC
5	Green Test Lamp	VERIFY ON
6	STBY Batt	ARM
7	Eng. Indic. System	CHECK
8	No Red X Eng. Ind.	VERIFY
9	Bus E: min. 24 Volts	CHECK
10	M Bus: < 1.5 Volts	CHECK
11	BATT S Amps	DISCHARGE
12	STBY BATT Annunc.	CHECK
13	Avionic Bus 1 & 2	OFF
14	Master ALT / BAT	OFF
15	Prop Area	CLEAR
16	External Power	CONNECT
17	Master ALT / BAT	ON
18	Beacon	ON
19	M BUS Volts approx. 28V	CHECK
<b>COLD ONLY</b>	Fuel Pump 	ON
	Mixture	4-6 SEC RICH
	Mixture	IDLE CUTOFF
	Fuel Pump	OFF
24	Ignition	START
25	Mixture w. fires smoothly	RICH
26	Oil Press. < 30 sec	IN GREEN
27	Throttle	IDLE
28	External Power	DISCONNECT

29	Throttle 5 Minutes	1500 rpm
30	Amps M BATT	CHARGE
31	AMPS BATT S	CHARGE
32	Low Volts Annunc.	CHECK OFF
33	Master ALT	OFF
34	Ldg & Taxi/Reco. Lights	ON
35	Throttle	IDLE
36	Master ALT / BAT	ON
37	Throttle	1500 rpm
38	Amps M BATT 	CHARGE
39	Low Volts Annunc. 	CHECK OFF
40	Nav Lights	AS REQ
41	Avionics BUS 1 & 2	ON
42	Taxi Lights	RECOGNITION

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**BEFORE TAKEOFF**

1	Parking Brake	SET
2	Seat Backs	UPRIGHT
3	Seats/Seat Belts	SECURE
4	Cabin Doors	CLOSE LOCK
5	Flight Controls	FREE & CORR
6	Flight Instruments (PFD)	CHECK
7	PFD Baro	SET
8	STBY Altimeter	SET
9	ALT SEL	SET
10	STBY Flight Instr.	CHECK
11	Fuel Quantity 	CHECK
12	Mixture	RICH
13	Fuel Selector	BOTH
14	Autopilot	ENGAGE
15	Flight Controls 	OVERRIDE
16	A/P Trim Disc. (Red)	PRESS
17	Flight Director	OFF
18	<b>Elevator Trim</b>	<b>T/O</b>
19	Rudder Trim	T/O
<b>MAGNETOS</b>	Throttle	1800 rpm
	Ignition R-B-L-B	CHECK
	Drop max 175 rpm	CHECK
	Diff L/R max 50 rpm	CHECK
	Ignition	BOTH
25	Prop Control	CYCLE
26	Prop Control	FULL FWD
27	VAC Indicator	CHECK
28	Engine Indicators	CHECK

29	Ammeters/Voltmeters	CHECK
30	Annunciators	NOT SHOWN
31	Throttle Check	IDLE
32	Throttle	< 1000 rpm
33	Friction Lock	ADJUST
34	COM	SET
35	NAV	SET
36	FMS / GPS FPL	AS DESIRED
37	Transponder	SET
38	CDI / NAV Source 	SELECT
39	Cabin PWR 12V	OFF
40	Flaps 	UP/10%/20°
41	Cowl Flaps	OPEN
42	Cabin Windows	CLOSE
43	Strobes	ON
44	Reco Light	ON
45	<b>Elevator Trim</b>	<b>T/O</b>
46	Brakes	RELEASE

**LINE UP / TAKEOFF**

1	Flaps 	UP/10%/20°
2	Throttle	FULL FWD
3	Propeller	2400 RPM
4	Mixture	RICH
5	Rotate	<b>50-60 KIAS</b>
6	Climb Speed	<b>70-80 KIAS</b>
7	~400 ft AGL - Safe Spd.	CHECK
8	Flaps Slowly	RETRACT

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**SHORT FIELD TAKEOFF**

1 Flaps	20°
2 Brakes	APPLY
3 Mixture	RICH
4 Throttle	FULL FWD
5 Propeller	2400 RPM
6 Brakes	RELEASE
7 Elevator Slightly	TAIL LOW
8 Climb Spd. Flap 20°	<b>58 KIAS</b>
9 Clear of Obstacles	CHECK
10 Climb Speed	<b>&gt;70 KIAS</b>
11 Flaps Slowly	RETRACT

**ENROUTE CLIMB**

1 Climb Speed	<b>85-95 KIAS</b>
2 Throttle	23 INCH
3 Propeller 	2400 RPM
4 Mixture 	15 GPH / RICH
5 Taxi/Reco Light	OFF
6 Fuel Selector	BOTH
7 Cowl Flaps	OPEN AS REQ

**MAX. PERFORMANCE CLIMB**

1 Speed @ Sea Level	<b>80 KIAS</b>
2 Speed @ 10000ft.	<b>74 KIAS</b>
3 Throttle	FULL FWD
4 Propeller 	2400 RPM
5 Mixture 	FULL RICH
6 Fuel Selector	BOTH
7 Cowl Flaps	OPEN

**CRUISE**

1 Power 	AS REQU
2 Trim Controls	ADJUST
3 Mixture 	LEAN
4 Taxi/Reco Light	OFF
5 Cowl Flaps	CLOSE
6 FMS/COM/NAV	REVIEW

**DESCENT**

1 Power	AS REQU
2 Mixture	ADJUST
3 Cowl Flaps	CLOSED
4 PFD Baro	SET
5 STBY Altimeter	SET
6 ALT SEL	SET
7 CDI NAV Source	SELECT
8 FMS / GPS 	REVIEW
9 Fuel Selector	BOTH
10 Flaps 10°	< 140 KIAS
11 Flaps 20°	< 120 KIAS
12 Flaps Full	< 100 KIAS
13 Reco Lights	AS REQ.

**BEFORE LANDING**

1 Seat Backs	UPRIGHT
2 Seats/Seat Belts	SECURE
3 Fuel Selector	BOTH
4 Mixture	RICH
5 Propeller	Full FWD
6 Landing Light	ON
7 Autopilot	OFF
8 Cabin PWR 12V	OFF

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**LANDING**

1	Airspeed (Flps Up)	<b>70-80 KIAS</b>
2	Flaps: <140 KIAS	UP - 10°
3	Flaps: <120 KIAS	10° - 20°
4	Flaps: <100 KIAS	20° - FULL
5	Airspeed (Flps Full)	<b>60-70 KIAS</b>
6	Trims	ADJUST
7	Touchdown	MAIN WHEELS
8	Nose Wheel	LOWER GENTLY
9	Brakes	MINIMUM
GO AROUND	Throttle	FULL FWD
	Propeller	2400 RPM
	Flaps	20°
	Climb Speed	<b>55 KIAS</b>
	~400ft AGL - Safe Spd.	CHECK
	Speed	<b>70 KIAS</b>
	Flaps Slowly	RETRACT
Cowl Flaps	OPEN	

GO AROUND	Throttle	FULL FWD
	Propeller	2400 RPM
	Flaps	20°
	Climb Speed	<b>55 KIAS</b>
	~400 ft AGL - Safe Spd.	CHECK
	Speed	<b>70 KIAS</b>
	Flaps Slowly	RETRACT
Cowl Flaps	OPEN	

**AFTER LANDING**

1	Flaps	UP
2	Cowl Flaps	OPEN
3	Pitot Heat	OFF
4	Strobes	OFF
5	Transponder	CHECK GND
6	LDG Light	TAXI/RECO

**SECURING ACFT**

1	Parking Brake	SET
2	ELT (121.5 MHz)	CHECK
3	Throttle	IDLE
4	Flightplan	CLOSE
5	Electr. Equipment	OFF
6	Avionics BUS 1 & 2	OFF
7	Mixture	IDLE CUTOFF
8	Magnetos	OFF
9	Beacon & Taxi	OFF
10	Master ALT/BAT	OFF
11	STBY Batt	OFF
12	Flight Logger	SLIDE CARD
13	Control Wheel Lock	INSTALL
14	Fuel Selector	LEFT/RIGHT
15	Pitot Cover	INSTALL

**SHORT FIELD LANDING**

1	Airspeed Flaps UP	70-80 KIAS
2	Flaps <100 KIAS	<b>FULL</b>
3	Airspeed until Flare	<b>60 KIAS</b>
4	Trim Controls	ADJUST
5	PWR after Obst. cleared	IDLE
6	Touchdown	MAIN WHEELS
7	Brakes	HEAVILY
8	Flaps	UP
9	Yoke	FULL BACK

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# CRUISE PERFORMANCE

## PRESSURE ALTITUDE 4000 FEET

### CONDITIONS:

3100 Pounds

Recommended Lean Mixture

Cowl Flaps CLOSED

RPM	MP	20°C BELOW			STANDARD			20°C ABOVE		
		STANDARD TEMP -13°C			TEMPERATURE 7°C			STANDARD TEMP 27°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	25	---	---	---	---	---	---	83	146	14.4
	24	84	140	14.6	81	142	14.0	78	143	13.6
	23	79	138	13.7	76	139	13.2	74	139	12.8
	22	74	134	12.9	72	135	12.5	69	135	12.1
	21	70	130	12.1	67	131	11.7	65	131	11.4
	20	65	126	11.4	62	126	11.1	60	126	10.8
2300	25	---	---	---	83	143	14.3	80	144	13.8
	24	81	138	14.0	78	140	13.5	75	141	13.1
	23	76	135	13.2	74	137	12.8	71	137	12.4
	22	72	132	12.5	69	133	12.1	67	133	11.7
	21	67	128	11.7	65	128	11.4	62	129	11.1
	20	62	124	11.1	60	124	10.7	58	124	10.5
2200	25	82	139	14.2	79	141	13.7	77	142	13.2
	24	78	136	13.4	75	138	13.0	72	138	12.6
	23	73	133	12.7	71	134	12.3	68	134	11.9
	22	69	130	12.0	66	130	11.7	64	130	11.3
	21	65	126	11.4	62	126	11.0	60	126	10.7
	20	60	122	10.7	58	122	10.4	56	121	10.2

### NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

## CRUISE PERFORMANCE PRESSURE ALTITUDE 6000 FEET

### CONDITIONS:

3100 Pounds

Recommended Lean Mixture

Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -17°C			STANDARD TEMPERATURE 3°C			20°C ABOVE STANDARD TEMP 23°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	23	82	142	14.2	79	143	13.6	76	144	13.2
	22	77	138	13.3	74	139	12.8	72	139	12.4
	21	72	135	12.5	69	135	12.1	67	135	11.7
	20	67	130	11.7	65	130	11.4	62	131	11.1
	19	62	126	11.0	60	126	10.7	58	125	10.4
2300	23	79	140	13.6	76	141	13.1	73	141	12.7
	22	74	136	12.8	71	137	12.4	69	137	12.0
	21	69	132	12.1	67	133	11.7	64	133	11.4
	20	65	128	11.4	62	128	11.0	60	128	10.7
	19	60	124	10.7	58	123	10.4	56	123	10.1
2200	23	76	137	13.1	73	138	12.6	70	138	12.3
	22	71	134	12.4	69	134	12.0	66	135	11.6
	21	67	130	11.7	64	130	11.3	62	130	11.0
	20	62	126	11.0	60	126	10.7	58	125	10.4
	19	58	121	10.4	56	121	10.1	54	120	9.9
2100	23	72	135	12.5	69	135	12.1	67	135	11.7
	22	68	131	11.8	65	131	11.5	63	131	11.1
	21	63	127	11.2	61	127	10.9	59	127	10.6
	20	59	123	10.6	57	122	10.3	55	122	10.0
	19	55	118	10.0	53	118	9.8	51	117	9.5
2000	23	68	131	11.9	66	132	11.5	63	132	11.2
	22	64	127	11.3	62	128	11.0	60	128	10.7
	21	60	124	10.7	58	123	10.4	56	123	10.2
	20	56	119	10.2	54	119	9.9	52	118	9.7
	19	52	115	9.6	50	114	9.4	48	113	9.1

### NOTE

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# CRUISE PERFORMANCE

## PRESSURE ALTITUDE 8000 FEET

CONDITIONS:

3100 Pounds

Recommended Lean Mixture

Cowl Flaps CLOSED

RPM	MP	20°C BELOW			STANDARD			20°C ABOVE		
		STANDARD TEMP -21°C			TEMPERATURE -1°C			STANDARD TEMP 19°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	21	74	139	12.9	72	139	12.5	69	140	12.1
	20	69	134	12.1	67	135	11.7	65	135	11.4
	19	64	130	11.4	62	130	11.0	60	130	10.7
	18	59	125	10.6	57	124	10.3	55	124	10.1
2300	21	72	136	12.5	69	137	12.0	67	137	11.7
	20	67	132	11.7	64	132	11.3	62	132	11.0
	19	62	128	11.0	60	127	10.7	58	127	10.4
	18	57	122	10.3	55	122	10.1	53	121	9.8
2200	21	69	134	12.0	66	134	11.6	64	134	11.3
	20	64	130	11.3	62	130	11.0	60	129	10.7
	19	60	125	10.7	57	125	10.4	55	124	10.1
	18	55	120	10.1	53	119	9.8	51	119	9.5
2100	21	65	131	11.5	63	131	11.2	61	131	10.8
	20	61	127	10.9	59	126	10.6	57	126	10.3
	19	57	122	10.3	55	121	10.0	53	121	9.7
	18	52	117	9.7	50	116	9.4	49	115	9.2
2000	21	62	128	11.0	60	127	10.7	58	127	10.4
	20	58	123	10.4	56	123	10.1	54	122	9.9
	19	54	118	9.9	52	118	9.6	50	117	9.4

### NOTE

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## Airspeeds for Normal Operations

### TAKEOFF

$V_X$ Flaps UP	65-68 KIAS
$V_Y$ Flaps UP	74-80 KIAS
Short Field, Flaps 20°, 50 ft	58 KIAS
Cruise - Climb Flaps UP	85-95 KIAS

### LANDING

Flaps UP	70-80 KIAS
Flaps FULL	60-70 KIAS
Short Field Flaps FULL	60 KIAS
Max. demo X-Wind	15 knots
$V_{FE}$ Flaps UP-10°	140 KIAS
$V_{FE}$ Flaps 10°-20°	120 KIAS
$V_{FE}$ Flaps 20°-FULL	100 KIAS

### CRUISE

$V_A$ Maneuvering	91-110 KIAS
$V_{NO}$ Max turbul. Air	140 KIAS
$V_{NE}$ Max Airspeed	175 KIAS
Max. Window open speed	175 KIAS

## Airspeeds for Emergency Operations

$V_A$ Maneuvering	91-110 KIAS
Best Glide Flaps UP	76 KIAS
Eng. Failure aft. T/O Flaps 10°-Full	70 KIAS
Eng. Failure aft. T/O Flaps UP	75 KIAS