

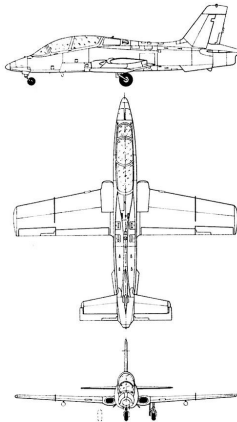
DCS MB-339

CREW CHECKLIST NORMAL PROCEDURES

MODEL MB-339 PAN / A
V2.0.1

NOT FOR REAL WORLD OPERATIONS

THIS DOCUMENT IS MADE FOR USE WITH
DIGITAL COMBAT SIMULATOR (DCS)
MB-339 MOD



APPROVED FOR RELEASE TO ALL DCS MB-339 PILOTS

OPENFLIGHTSCHOOL.DE
VERSION 2.0
25.01.2020

NOTES

BOLD TEXT FOR BASIC COURSE

NORMAL TEXT FOR FULL CHECKS

ITALIC TEXT FOR GUIDANCE

Title Case for flight profile guidance

Items in GREY not implemented

NORMAL CHECKLIST (NCL)

PREFLIGHT

- CIRCUIT BREAKERS IN
- SMOKE MASTER OFF
- THROTTLE STOP
- FLAPS UP
- FUEL SHUTOFF OPEN/GUARDED
- ENGINE MASTER OFF
- LDG LT/TAXI LT OFF
- LDG GEAR DN
- PARKING BRAKE SET
- MASTER ARM OFF
- CONTROLS UNLOCKED
- SEAT SAFETY PIN INSERTED
- BATT OFF
- GEN1/GEN2 OFF
- GPS OFF
- ANTI-ICE/PITOT OFF
- ANTI-ICE/ENG OFF
- EXTERNAL LIGHTS OFF

BEFORE START

- EXTN PWR ... CONNECT (IF REQ'D)
- BATT** **ON**
- GEN1/GEN2** **ON**
- NAV LTS** **ON**
- FUEL TRANSFER** **TIP**

ENGINE START

- BCN** **ON**
- THROTTLE** **STOP**
- ENG MASTER** **ON**
- JPT LMTR** **ON**
- STARTER** **PRESS (2 SEC)**
- THROTTLE** **>10% RPM, IDLE**
- FUEL FLOW** **CHECK**

Caution

If any of the following occur, immediately return throttle to STOP and wait 5 mins before restart:

- EXH Temp >Max Start Limit (756°)
- EXH & RPM Failure to rise after 15 sec

- EXH TEMP** **CHECK**
- RPM** **CHECK**
- OIL PRESS** **CHECK**
- FIRE & OVERHEAT OUT
- HYD PRESS INCREASING
- MASTER CAUTION OUT
- CAUTION LIGHTS OUT
- EXTN PWR DISCONNECT(IF IN)

BEFORE TAXI

- STBY HORIZON UNCAGE
- LOAD/GEN1 CHECK <1

LOAD/GEN2 < LOAD/GEN1
 TCN AS REQD
 VOR, ILS, GPS, IFF ON
ALTIMETERS SET
 CABIN PRESS ON
 ADI CHECK
 HSI CHECK
SPEED BRAKE IN
FLAPS FULL, THEN T/O
 HYD PRESS CHECK
CONTROLS FULL & FREE
CANOPY CLOSED
 FUEL TRANSFER TIP
 Radio AS REQ

TAXI

ANTISKID NORM
 WHEEL CHOCKS REMOVED
NOSE WHEEL STEERING ON
LDG LT/TAXI LT TAXI
PARKING BRAKE OFF
BRAKES TEST

NOTE
 Use approx 60% RPM to begin to taxi.
 Once moving taxi at IDLE, max 15kts.

CAUTION
 With NWS engaged do not use brakes to
 steer.

OXYGEN AS REQ'D
 ADI, STBY AI, HSI CHECK
 EMERG BRAKE TEST
 BCN AS REQ'D

PRE-TAKEOFF

FUEL TRANSFER PYL or TIP

NOTE
 To optimize longitudinal attitude of aircraft fitted with 500 ltr cylindrical tip tanks, underwing fuel tanks and single pilot, following tank selection sequence is suggested:
 a) PYL (underwing tanks) only during starting to check leakages.
 b) TIP (tip tanks) for take-off and initial climb until tip tank residual fuel is approx. 300 kg.
 c) PYL up to complete empty.
 d) TIP.

LDG LT/TAXI LT TAXI
ANTI ICE/PITOT ON
TRIMS NEUTRAL
FLAPS T/O
 SPEEDBRAKE IN
CANOPY CLOSED & LOCKED
SEAT SAFETY PIN REMOVED
INSTRUMENTS CHECK
 OXYGEN CHECK
 HYD PRESS CHECK
CAUTION & WARN LTS OUT
INT & EXT LTS AS REQ'D
 T/O Brief COMPLETE
 IFF MASTER NORM

Engine Test

NOTE

The engine must accelerate and decelerate without surge, stall, undershoot, vibrations or abnormal noise.

THROTTLE IDLE
CAUTION & WARNING LTS OUT
T&Ps - OIL, RPM, EXH CHECK
THROTTLE SLAM to FULL(5 sec)
CAUTION & WARNING LTS OUT
T&Ps - OIL, RPM, EXH CHECK
THROTTLE CHOP to IDLE

System Test

THROTTLE 60% RPM
GEN1 & GEN2 CHECK
ANTI-ICE/ENG TEST
ANTI_ICE/PITOT ON
THROTTLE FULL

TAKE-OFF

NWS DISENGAGE
BRAKES RELEASE

NOTE
Maintain directional control with brakes until 50 kts then with rudder

CAUTION
Do NOT engage NWS during take-off roll.

Pitch @T/O-10kts, Rotate 7°NU
LDG GEAR <175kts+CLIMB, UP
FLAPS 120-175kts, UP
HYD PRESS CHECK

ENG INST CHECK

CAUTION
Ensure Landing Gear and Flap are fully up before 175 kts is exceeded.

CLIMB

Airspeed SET 275 KIAS
POWER SET
ALTIMETER AS REQ'D
ENG - OIL, RPM, EXH CHECK
HSI CHECK
ADI, STBY AI CHECK
CABIN PRESS >8,000ft, CHECK

NOTE
8,000ft - 16,000ft = 8000ft
16,000ft - 24,000ft = ALT/2 + 500ft
>24,000ft = ALT/2 + 1,000ft to 2,000ft

FUEL TRANSFER CHECK
OXYGEN CHECK
ANTI-ICE/PITOT + AOA ON
HYD PRESS CHECK
ELEC - LOAD CHECK
LDG LT/TAXI LT OFF

CRUISE

FUEL STATE / BALANCE CHECK
ENG - OIL, RPM, EXH CHECK
ELEC - LOAD METERS CHECK

Location CHECK
 HYD PRESS CHECK
 OXYGEN CHECK
 CABIN PRESS CHECK
 CABIN TEMP AS REQ'D

DESCENT

WINDSHIELD/DEMIST ON
 ANTI-ICE/ENG AS REQ'D
 NAV SYSTEM AS REQ'D
LDG LT/TAXI LT TAXI
 ADI, HSI CHECK
ALTIMETERS SET
 ANTI-ICE/PITOT ON
 FUEL CHECK
 HYD PRESS CHECK
 MASTER ARM OFF

APPROACH

Approach Brief Complete

Enter Pattern

Airspeed 250KIAS
 Altitude 1,500ft
 ANTI-ICE/ENG AS REQ'D

Break

THROTTLE 60% RPM
SPEEDBRAKE OUT

Downwind

LDG GEAR <175kts, DN
SPEEDBRAKE IN
FLAPS <175kts, T/O
 HYD PRESS CHECK
 THROTTLE 80%, 140KIAS

NOTE
 APPROACH AIRSPEED CORRECTIONS (Cr)
 With AUM at 3,700kg = 130KIAS
 Cr = + 1.5Kts / 100kg above 3,700kg
 Maintain 0.45 AoA

Base - Final

FLAPS <150KIAS, DOWN
 Airspeed .. 130KIAS+Cr (0.45 AoA)
 THROTTLE Min 60%

Final

Wings Level Min 400ft
 Airspeed 115KIAS+Cr(0.45)
 LDG LT/TAXI LT AS REQ'D
 Throttle 110KIAS @ Threshold

Flare

THROTTLE IDLE
 Touchdown95-100KIAS+Cr

GO AROUND

THROTTLE FULL

SPEEDBRAKE IN
Attitude @ RPM Max, 7° NU
LDG GEAR UP
FLAPS 120-175kts, UP
LDG LT/TAXI LT AS REQ'D

GEN1/GEN2 OFF
BATT OFF
 WHEEL CHOCKS SET
 PARKING BRAKE RELEASE
 OXYGEN OFF
CANOPY OPEN

AFTER LANDING

NOSE WHEEL STEERING ON
FLAPS UP
SPEED BRAKE IN
 HYD PRESS CHECK
 TRIMS NEUTRAL
LDG LT/TAXI LT TAXI
 STBY AI CAGE
 IFF OFF
 TACAN OFF
 VOR/ILS OFF
 WINDSHIELD/DEMIST OFF
 ANTI-ICE/ENG OFF
ANTI-ICE/PITOT OFF
SEAT SAFETY PIN INSERT
 CANOPY AS REQ'D

ENGINE SHUTDOWN

LDG LT/TAXI LT OFF
PARKING BRAKE SET
 SPEEDBRAKE OUT
 FLAPS DOWN
THROTTLE 60%RPM, STOP
 UHF/VHF RADIOS OFF
 INS GPS OFF
BCN OFF
ENGINE MASTER OFF
JPT LMTR OFF

OPERATING DATA

Item	Parameter	Value
Vne	Never Exceed Speed	500 kts
Vle	Max Gear Operating Speed	175 kts
Vs	Stall Speeds: - Clean - Max Fuel - T/O - Land	96 kts 107 kts 103 kts 100 kts
Vfe	Flap Limit Speeds: - T/O (28°) - Down (64°)	180 kts 150 kts
Vy	Best Rate of Climb Speeds: - See Level - 10,000 ft - 20,000 ft - 30,000 ft - 40,000 ft	280 kts 265 kts 255 kts (0.55 Mach) 210 kts (0.55 Mach) 160 kts (0.55 Mach)
AUM	Mass: - Dry - Unusable Fuel & Oil - Basic Empty - Pilot - Land - 10% Fuel - T/O Clean - Max T/O with external / stores	3125 kg 15 kg 3140 kg 80 kg 3425 kg 4400 kg 5900 kg
G	Max G Limits: - Clean - Cylindrical Tips with > 195 kg Fuel - Elliptical Tips with >260 kg Fuel - Sustained - Flap	+8g to -4g +7g to -3g +6g to -2½g +5.9g +4g to -0g

Fuel	Quantity: - Internal - Cylindrical Tip Tanks - Elliptical Tip Tanks - Pylon Tanks - On Stn 2 & 5 Pressure: - "FUEL PRESS" Consumption: - 40% RPM - Max RPM	1100 kg 395 kg ea 395 kg ea 357 kg ea 0.2 Bar 5 kg/min 29 kg/min
Eng	Maximum Exhaust Temp during Start "OIL PRESS"	756° 0.4 Bar
Hyd	Pressure:	176 ±14 Bar
Glide	- Speed - AoA - Distance covered over 5,000ft loss - RoD	150 kts 0.42 11.5 nm 1200fpm
Pylon	Max Loads: - Stations 1 & 6 - Stations 2,3,4 & 5	340kg = (750 lbs) 454kg = (1000 lbs)