

Aermacchi MB-339



The Aermacchi MB-339 is a trainer and light-attack aircraft. It was developed from the MB-326.

Versions

MB-339A

The MB-339A was developed from the MB-326K. It gained a new forward fuselage for two crew, with the rear one being elevated to give better visibility, a new tail, and deleted the internal guns. It kept the wing and the 4,000 lbf Viper 632-43 engine. The additional weight of the fuselage modifications reduced the stores capacity to 3,500 lb.

The MB-339A was used by the Italian AMI (one hundred and seven), the Argentine COAN (ten MB-339AA), the Ghanaian Air Force (four), the Malaysian RMAF (thirteen MB-339AN), the Peruvian Air Force (sixteen MB-339AP), and the Nigerian Air Force (twelve MB-339AN), and the UAE Air Force (seventeen).

MB-339C and MB-339CD

The MB-339C is largely similar to the A, but has updated flight controls and avionics, including a RWR. The CD version also has a

The MB-339C serves with the Italian AMI (thirty MB-33CD), the Eritrean Air Force (six MB-339CE), and the Malaysian RMAF (MB-339CM).

MB-339CB

The MB-339CB is largely similar to the C, but uses the more powerful 4,440 lbf Viper 680-43 engine.

The MB-339CB served with the RNZAF from 1991 to 2003 and then with the French AA from 2019 for DACT.

Armament and Stores

The MB-339 can be armed with gun pods (including ones with a 30 mm DEFA cannon and .50 cal machine guns),

rocket pods, bombs, and is wired for AIM-9 Sidewinder and Matra R.550 Magic IRMs. It can use 330L FTs.

In Argentine COAN service, it was typically armed with two gun pods each with a 30 mm DEFA cannon and 120 rounds per gun and then either two LAU-10 RP (each with four Zuni rockets), two Matra-155 RPs (each with twelve 68 mm rockets), or two Mk 81 or Mk 82 BBS. The LAU-10 RPs were favored in the South Atlantic War.

Combat

Argentine COAN MB-339As saw combat in the 1982 South Atlantic War, flying out of BAM Malvinas (Port Stanley Airport). They were used for armed reconnaissance and close air support. Of the seven deployed to the Islands, one crashed in poor weather, one was shot down by a Blowpipe, two were destroyed on the ground by naval gunfire, one was unable to escape, and two escaped back to the mainland.

Eritrean MB-339Cs saw combat in the 1998-2000 Eritrean–Ethiopian War.

ADCs

- MB-339A
- MB-339C
- MB-339CD
- MB-339CB

See Also

- Aermacchi MB-326

Photo Credit

- MB-339CD: Jim van de Burgt (Public Domain)

MB-339A					Crew: Pilot and Observer										
					Maneuver HFPs/DPs:										
Power APs/DPs/FPs: ○					LR/DR	1.5	1.5								
CL 1/2 DT Fuel					VR	0.5									
AB	—	—	—	—	Turn DPs:										
M	1.5	1.0	1.0	2.0	CL	1/2	DT								
N	0.0	0.0	0.0	1.0	TT	0.0	0.0	0.0							
I	0.5	0.5	0.5	0.0	HT	0.0	1.0	1.0							
SPBR	0.5	0.5	1.0	—	BT	1.0	1.0	2.0							
Cruise Speed: 4.5 Restr. Arcs: 60–					ET	—	—	—							
Climb Speed: 3.5 Blind Arcs: 30–															
Visibility: 5 Internal Fuel: 120															
Size: +0 AtA Refuel: No															
Vulnerability: -2 Ejection Seat: Std															
Speeds and Ceilings															
Alt. Band	Conf. Ceil.	CL 47	1/2 40	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band						
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+						
VH	36–45	2.5 – 5.0	2.5 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH						
HI	26–35	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	HI						
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.0	— 1.0	— 0.5	— 0.5	MH						
ML	8–16	1.5 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 0.5	ML						
LO	0–7	1.0 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 1.0	LO						
Radar: —		ECM: IFF	Weapon Stations Diagram:												
ECCM: —		RWR: —													
Arcs: —		DDS: —													
Search: —		DJM: —													
Track: —		AJM: —													
Lock-On: —		BJM: —													
Guns: —		Technology:			Load Point Limits:										
To Hit: —		None			CL : 0–3 1/2: 4–5										
Ammunition: —					Weight Limit: 3,500 DT : 6+										
Gunsight: TT+0/HT+2/BT+3					Station	Limit	Allowed Loads								
Ranging: —					1 and 6	750	BB BG RP RK GP EP IRM								
AtA/AtG: —					2 and 5	1,000	BB BG RP RK RG GP EP FT								
Bomb System: Manual					3 and 4	1,000	BB BG RP RK RG GP EP PP								
Notes:															
1. The Aermacchi MB-339A is a trainer and light-attack aircraft. It is derived from the MB-326K, but has a new forward cockpit for a second crew member and no internal guns.															
2. High transonic drag (HTD).															
VPs: 11/7/4/2								v1.0000000 0000-00-00T00:00:00							

MB-339C					Crew: Pilot and Observer						
					Maneuver HFPs/DPs:						
Power APs/DPs/FPs: ○					LR/DR	1.5	1.5				
CL 1/2 DT Fuel					VR	0.5					
AB	—	—	—	—	Turn DPs:						
M	1.5	1.0	1.0	2.0	CL	1/2	DT				
N	0.0	0.0	0.0	1.0	TT	0.0	0.0	0.0			
I	0.5	0.5	0.5	0.0	HT	0.0	1.0	1.0			
SPBR	0.5	0.5	1.0	—	BT	1.0	1.0	2.0			
Cruise Speed: 4.5 Restr. Arcs: 60–					ET	—	—	—			
Climb Speed: 3.5 Blind Arcs: 30–											
Visibility: 5 Internal Fuel: 120											
Size: +0 AtA Refuel: No											
Vulnerability: -2 Ejection Seat: Std											
Speeds and Ceilings											
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT	Alt.		
Band	Ceil.	47	40	35	Speed	AB Oth	AB Oth	AB Oth	Band		
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+		
VH	36–45	2.5 – 5.0	2.5 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH		
HI	26–35	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	HI		
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.0	— 1.0	— 0.5	— 0.5	MH		
ML	8–16	1.5 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 0.5	ML		
LO	0–7	1.0 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 1.0	LO		
Radar: —					ECM: IFF	Weapon Stations Diagram:					
ECCM: —					RWR: C						
Arcs: —					DDS: —						
Search: —					DJM: —						
Track: —					AJM: —						
Lock-On: —					BJM: —						
Guns: —					Technology:						
To Hit: —					None	Load Point Limits:					
Ammunition: —						CL : 0–3					
Gunsight: TT+0/HT+2/BT+3						1/2: 4–5					
Ranging: —						Weight Limit: 3,500					
AtA/AtG: —						DT : 6+					
Bomb System: Computed					Station Limit Allowed Loads						
					1 and 6	750	BB BG RP RK GP EP IRM				
					2 and 5	1,000	BB BG RP RK RG GP EP FT				
					3 and 4	1,000	BB BG RP RK RG GP EP PP				
Notes:					Load Notes:						
1. The Aermacchi MB-339C is a trainer and light-attack aircraft. It is derived from the MB-339A, but has updated avionics and flight controls.					1. May use 330L FTs.						
2. High transonic drag (HTD).					2. May use AIM-9 and R.550 IRMs						
					3. PP may only be used on station 4.						
					VPs: 11/7/4/2						
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MB-339CD					Crew: Pilot and Observer				
					Maneuver HFPs/DPs:				
Power APs/DPs/FPs: ○					LR/DR	1.5	1.5		
CL 1/2 DT Fuel					VR	0.5			
AB	—	—	—	—	Turn DPs:				
M	1.5	1.0	1.0	2.0	CL	1/2	DT		
N	0.0	0.0	0.0	1.0	TT	0.0	0.0	0.0	
I	0.5	0.5	0.5	0.0	HT	0.0	1.0	1.0	
SPBR	0.5	0.5	1.0	—	BT	1.0	1.0	2.0	
Cruise Speed: 4.5 Restr. Arcs: 60–					ET	—	—	—	
Climb Speed: 3.5 Blind Arcs: 30–									
Visibility: 5 Internal Fuel: 120									
Size: +0 AtA Refuel: Yes									
Vulnerability: -2 Ejection Seat: Std									
Speeds and Ceilings									
Alt.	Conf.	CL	1/2	DT	Dive	CL	1/2	DT	Alt.
Band	Ceil.	47	40	35	Speed	AB Oth	AB Oth	AB Oth	Band
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+
VH	36–45	2.5 – 5.0	2.5 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH
HI	26–35	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	HI
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.0	— 1.0	— 0.5	— 0.5	MH
ML	8–16	1.5 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 0.5	ML
LO	0–7	1.0 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 1.0	LO
Radar: —					ECM: IFF	Weapon Stations Diagram:			
ECCM: —					RWR: C				
Arcs: —					DDS: —				
Search: —					DJM: —				
Track: —					AJM: —				
Lock-On: —					BJM: —				
Guns: —					Technology:				
To Hit: —						Load Point Limits:			
Ammunition: —						CL : 0–3			
Gunsight: TT+0/HT+2/BT+3						1/2: 4–5			
Ranging: —						Weight Limit: 3,500			
AtA/AtG: —						DT : 6+			
Bomb System: Computed					Station Limit Allowed Loads				
					1 and 6	750	BB BG RP RK GP EP IRM		
					2 and 5	1,000	BB BG RP RK RG GP EP FT		
					3 and 4	1,000	BB BG RP RK RG GP EP PP		
					Load Notes:				
1. The Aermacchi MB-339CD is a trainer and light-attack aircraft. It is derived from the MB-339C, but is equipped with a fixed refueling probe. 2. High transonic drag (HTD).					1. May use 330L FTs. 2. May use AIM-9 and R.550 IRMs 3. PP may only be used on station 4.				
Notes:									

MB-339CB					Crew: Pilot and Observer										
					Maneuver HFPs/DPs:										
Power APs/DPs/FPs: ○					LR/DR	1.5	1.5								
CL 1/2 DT Fuel					VR	0.5									
AB	—	—	—	—	Turn DPs:										
M	1.5	1.5	1.0	2.0	CL	1/2	DT								
N	0.0	0.0	0.0	1.0	TT	0.0	0.0	0.0							
I	0.5	0.5	0.5	0.0	HT	0.0	1.0	1.0							
SPBR	0.5	0.5	1.0	—	BT	1.0	1.0	2.0							
Cruise Speed: 4.5 Restr. Arcs: 60–					ET	—	—	—							
Climb Speed: 3.5 Blind Arcs: 30–															
Visibility: 5 Internal Fuel: 120															
Size: +0 AtA Refuel: No															
Vulnerability: -2 Ejection Seat: Std															
Speeds and Ceilings															
Alt. Band	Conf. Ceil.	CL 47	1/2 40	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band						
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+						
VH	36–45	2.5 – 5.0	2.5 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH						
HI	26–35	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	HI						
MH	17–25	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.0	— 1.0	— 0.5	— 0.5	MH						
ML	8–16	1.5 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 0.5	ML						
LO	0–7	1.0 – 5.5	1.5 – 5.0	1.5 – 4.5	6.0	— 1.0	— 1.0	— 1.0	LO						
Radar: —		ECM: IFF	Weapon Stations Diagram:												
ECCM: —		RWR: C													
Arcs: —		DDS: —													
Search: —		DJM: —													
Track: —		AJM: —													
Lock-On: —		BJM: —													
Guns: —		Technology: None			Load Point Limits:										
To Hit: —					CL : 0–3										
Ammunition: —					1/2: 4–5										
Gunsight: TT+0/HT+2/BT+3					Weight Limit: 3,500										
Ranging: —					DT : 6+										
AtA/AtG: —					Station	Limit	Allowed Loads								
Bomb System: Computed					1 and 6	750	BB BG RP RK GP EP IRM								
					2 and 5	1,000	BB BG RP RK RG GP EP FT								
					3 and 4	1,000	BB BG RP RK RG GP EP PP								
Notes:															
1. The Aermacchi MB-339CB is a trainer and light-attack aircraft. It is derived from the MB-339C, but has a more powerful Viper 680-43 engine.															
2. High transonic drag (HTD).															
VPs: 12/8/4/2								v1.0000000 0000-00-00T00:00:00							