



AV-8A Harrier USMC

The Hawker Siddeley Harrier was a British military aircraft which became the first jet aircraft in the world with vertical/short take-off and landing (V/STOL) capabilities to enter front-line operational service. The Harrier evolved from the initial P.1127 prototype and successor, the Kestrel, which was used to evaluate the aircraft's operational capabilities. The British Royal Air Force (RAF) ordered the first batch of Harrier GR.1s in December 1966 and the first production Harrier GR.1 made its first flight a year later on 28 December 1967.

The Harrier was powered by a single Pegasus turbofan engine mounted in the centre of the fuselage behind two large air intakes and it used four rotating nozzles for directing (vectoring) the thrust generated: the front two for the bypass airflow and rear two for the jet exhaust. Reaction control valves fitted in the nose, tail and wingtips enabled controlled maneuvering in slow speed flight and stability to be maintained in the hover. It had two landing gear units under the fuselage and two outrigger landing gear units, one under each wing tip. Equipped with four wing and three fuselage pylons, the Harrier could carry a variety of stores including gun pods, rocket pods, bombs and external fuel tanks.

While the US Army had been involved with RAF and West Germany's Luftwaffe in the Kestrel Tripartite Evaluation Squadron, the United States Marine Corps (USMC) first experience of the Harrier was when two colonels flew a GR.1 after visiting the Farnborough Air Show in 1968; being tutored by HSA test pilot John Farley.

The USMC recognised the Harrier's capability to support their assault missions and orders were placed quickly with HSA for a version with US avionics, instrumentation and radios fitted - the AV-8A. Deliveries began in 1971 and finished in 1976, 102 airframes later. 8 twin-seat trainer variants were also purchased, the TAV-8A. All AV-8As were produced at Hawker Siddeley Aviation's (HSA) factory in Kingston-upon-Thames with final assembly and flight testing at their airfield at Dunsfold in Surrey before they were transported to the USA. The first ten had the Pegasus Mk.102 engine (US designation F402-RR-400) fitted of 20,500lbs thrust, subsequent airframes having the Mk.103 (F402-RR-401) of 21,500lbs thrust.

AV-8As were originally fitted with the British Martin Baker Mk.9 ejections seats, these being replaced by the US Stencel IIIIS SEU-3/A seats in the mid-1970s as the aircraft cycled through maintenance upgrades; hence the two options in this kit. The AV-8A was equipped to use the AIM-9D/G Sidewinder air-to-air missiles, even though the aircraft had no radar fitted.

Three frontline USMC squadrons were equipped with the AV-8A, chronologically - VMA-513 "Flying Nightmares", VMA-542 "Flying Tigers" and VMA-231 "Ace of Spades". A training squadron VMAT-203 "Hawks" also flew AV-8As and the TAV-8A.

Like the RAF's Harriers, the AV-8A was primarily used as a ground-attack and reconnaissance aircraft, though its maneuverability also allowed it to effectively engage other aircraft at short ranges. AV-8As saw multiple deployments to the USMC's amphibious assault ships reinforcing Marine helicopter squadrons; and deployed aboard US Navy carriers, including the USS Franklin D. Roosevelt in 1976/77. AV-8As were withdrawn from frontline use with the USMC in 1985-86 as the improved Harrier II AV-8B entered service.

CAUTION

- *Read carefully and fully understand the instructions before commencing assembly.
- *Keep out of reach of children. Children must not be allowed to put any parts in their mouths, or pull plastic bag over their heads.
- *When using adhesives and paints, please make sure not to use them in closed room or near the fire.
- *When assembling this kit, tools including knives are used. Extra care should be taken to avoid injury.

WARNING: CONTAIN SMALL PARTS NOT FOR CHILDREN UNDER 14 YEARS OF AGE.



Drill



Remove



2 Set



Bend



Optional



Decal



Super Glue



Fill Hole



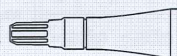
No Cement



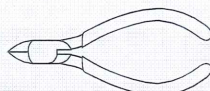
Be Careful

TOOLS RECOMMENDED

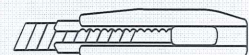
Cement



Side Cutter



Modeling Knife



Tweezers



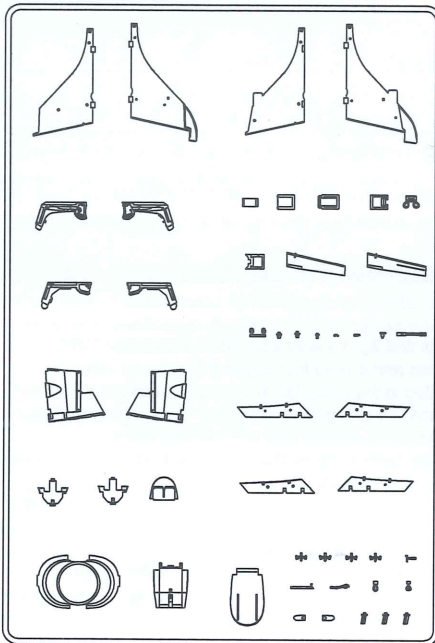
1/48 SCALE AIRCRAFT SERIES NO. K48072

AFTERMARKET SERVICES CARD

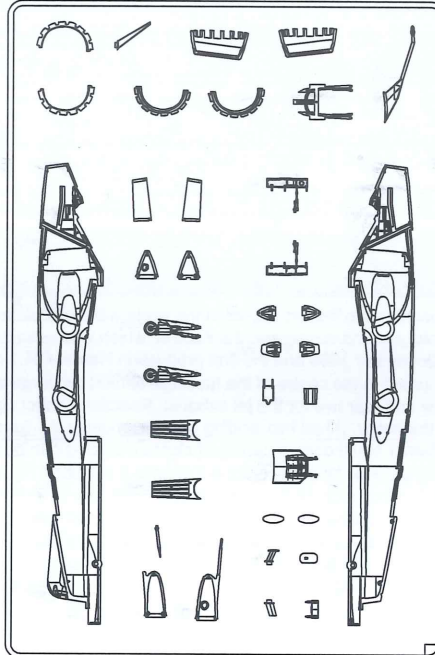
When requesting replacement parts, please take or send this form to your local dealer so that the parts required can be correctly identified. Please note that specifications and availability are subject to change without notice. Or visit <http://www.kineticmodel.com> for latest information. For more information, please contact services@kineticmodel.com

Part Code	K48072	Qty	Item
00-156-003	1/48 HARRIER FA2 INTAKE	1	C
00-156-004	1/48 HARRIER FA2 PARTS	1	D
00-156-005	1/48 HARRIER FA2 LANDING GEAR	1	E
00-156-007	1/48 HARRIER MISSILE SPRUE/TANK	2	G
00-156-009	1/48 HARRIER FRS1/T2/T4/GR 1/GR3 WING	1	I
00-156-014	1/48 HARRIER GR 1/GR3/AV-8A FUESI AGE	1	N
00-156-015	1/48 HARRIER GR1/GR3/AV-8A PARTS	1	P
00-156-016	1/48 HARRIER GR 1/GR3/AV-8A CANOPY	1	Q
01-156-48072	1/48 HARRIER AV-8A USMC/SPAIN	1	Decal
03-156-48072	1/48 HARRIER AV-8A MANUAL	1	MANUAL
06-156-48060	1/48 HARRIER GR 1/3/AV-8A	1	PE

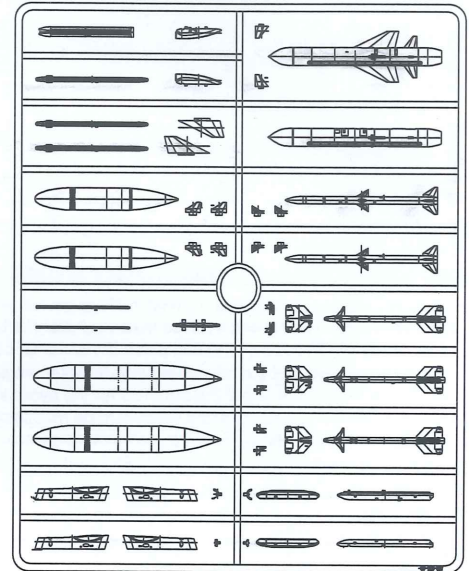
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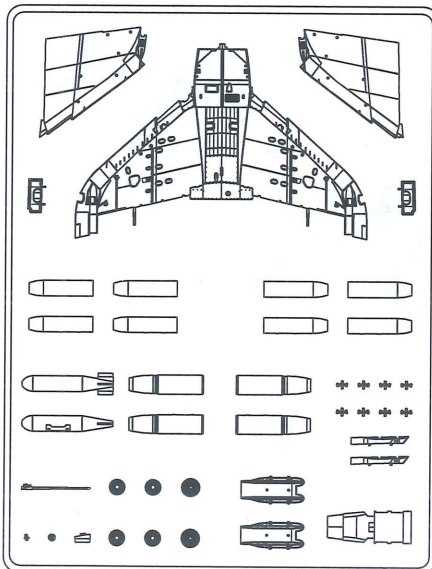
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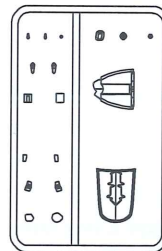
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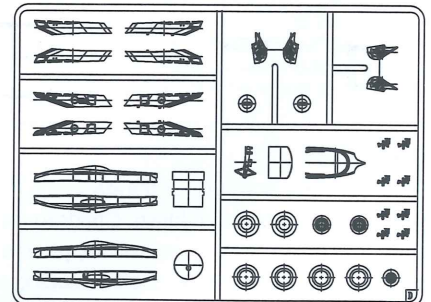
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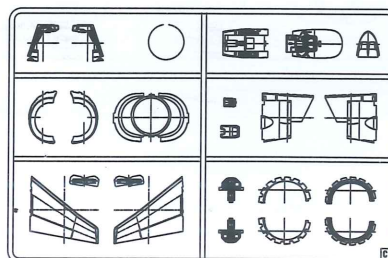
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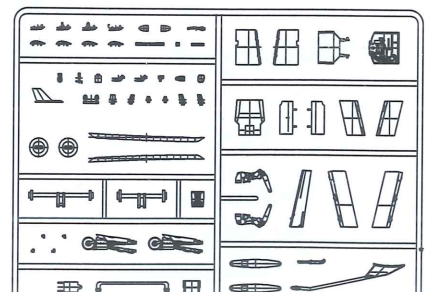
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C



E



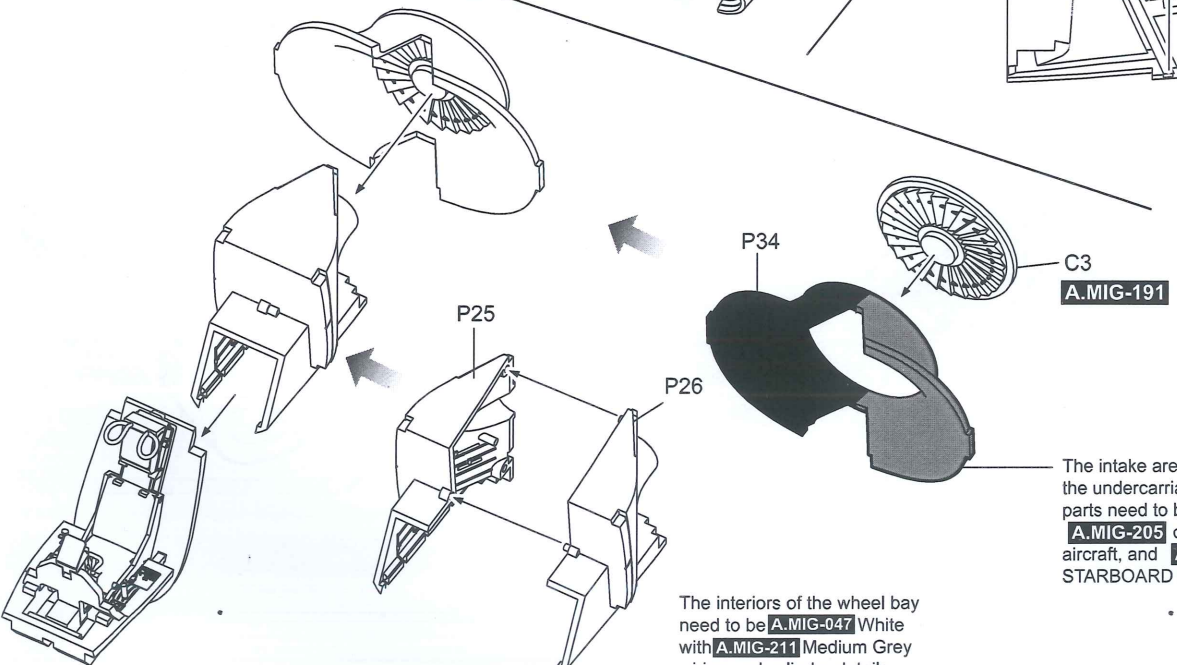
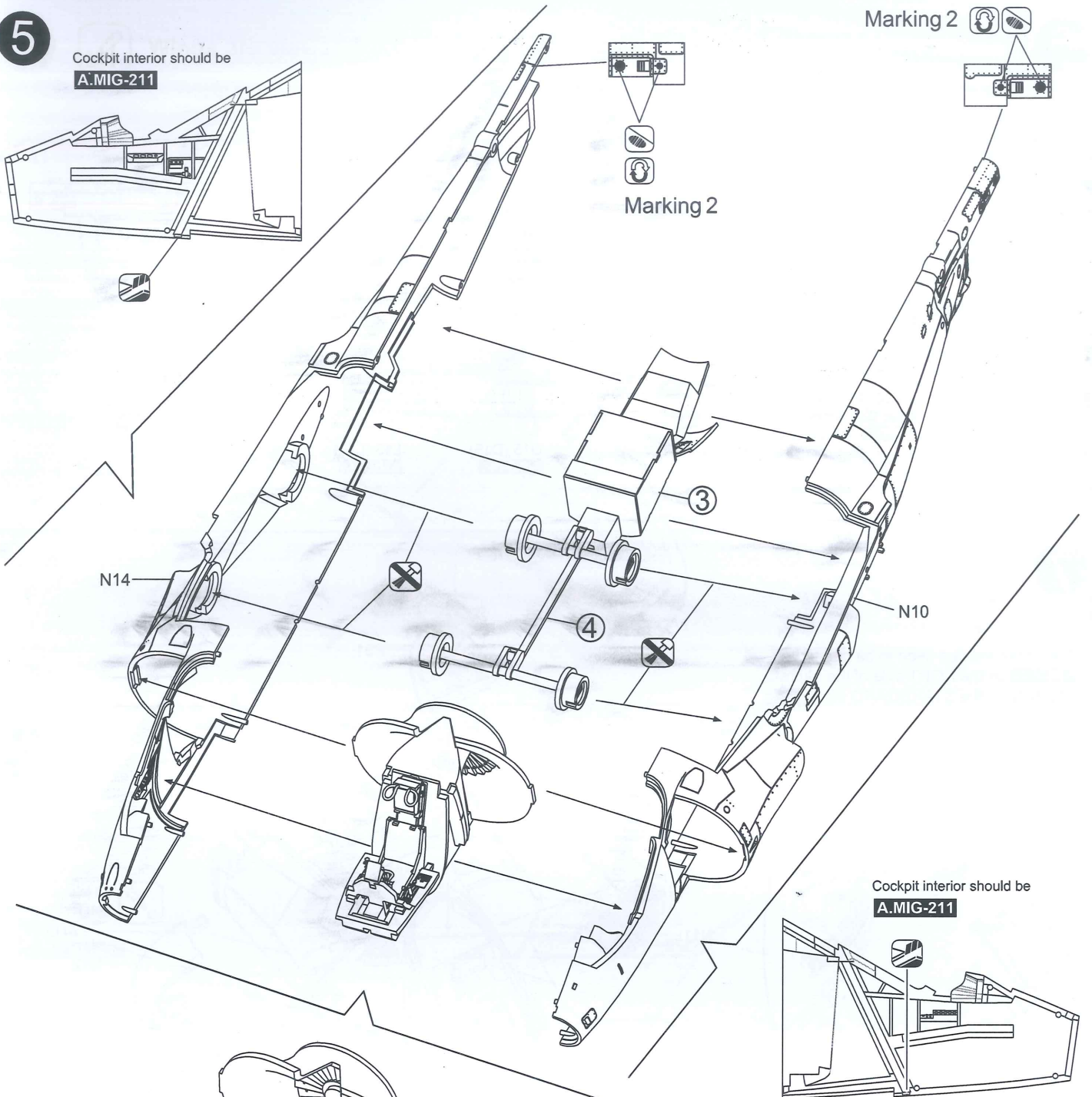


COLOR	AMMO MIG	VALLEJO MODEL COLOR	GSI CREOS MR. COLOR	TAMIYA ENAMEL/ACRYLIC	HUMBROL
SATIN BLACK	A.MIG-032	70.861	2	X-1	85
RUBBER & TIRES	A.MIG-033	70.306	137	XF-85	67
GUN METAL	A.MIG-045	71.072	-	X-10	53
MATT BLACK	A.MIG-046	71.057	33	XF-1	33
SATIN WHITE	A.MIG-047	70.842	1	X-2	130
YELLOW	A.MIG-048	71.002	4	XF-3	69
MEDIUM LIGHT GREEN	A.MIG-051	70.336	-	-	-
EARTH	A.MIG-073	70.874	-	XF-52	29
CRYSTAL RED	A.MIG-093	70.934	47	X-27	220
CRYSTAL GREEN	A.MIG-096	70.936	-	X-25	239
STEEL	A.MIG-191	70.864	28	-	27003
SILVER	A.MIG-195	71.063	8	X-11	11
BS638 DARK SEA GRAY	A.MIG-205	71.051	317	-	164
BS641 DARK GREEN	A.MIG-206	71.294	309	-	163
BS627 LIGHT AIRCRAFT GRAY	A.MIG-241	70.986	31/325	-	166
BS631 LIGHT GRAY	A.MIG-209	71.276	11	-	196
BS632 DARK ADMIRALTY GRAY	A.MIG-211	71.275	306	-	27/126
OLIVE DRAB DARK BASE	A.MIG-925	71.043	38	-	253

For Color Profile, please go to www.kineticmodel.com for download
(type the kit# and go for manual/painting guide)

5

Cockpit interior should be
A.MIG-211

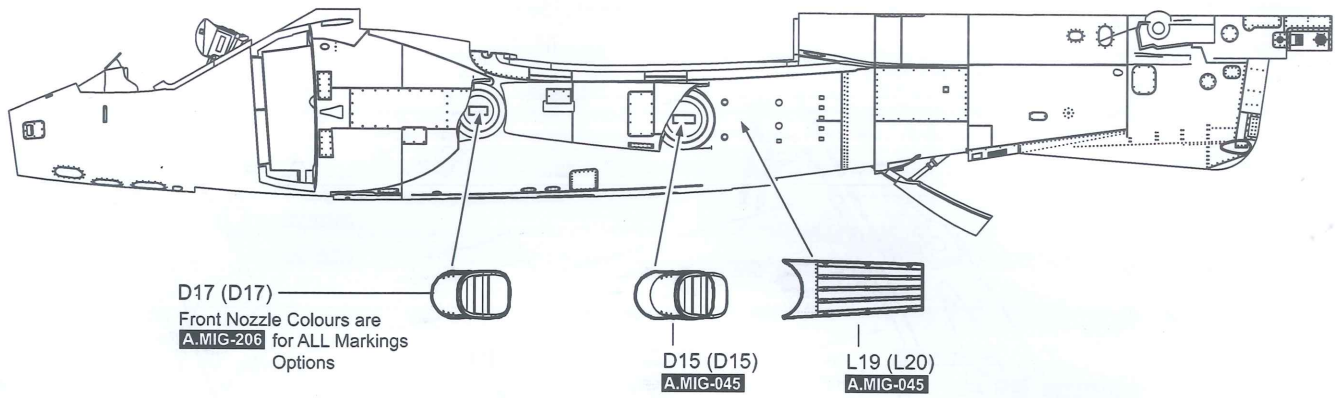


Cockpit interior should be
A.MIG-211

The intake area in front of C3 and of the undercarriage bay / intake interior parts need to be painted:
A.MIG-205 on the PORT side of the aircraft, and **A.MIG-206** on the STARBOARD side.

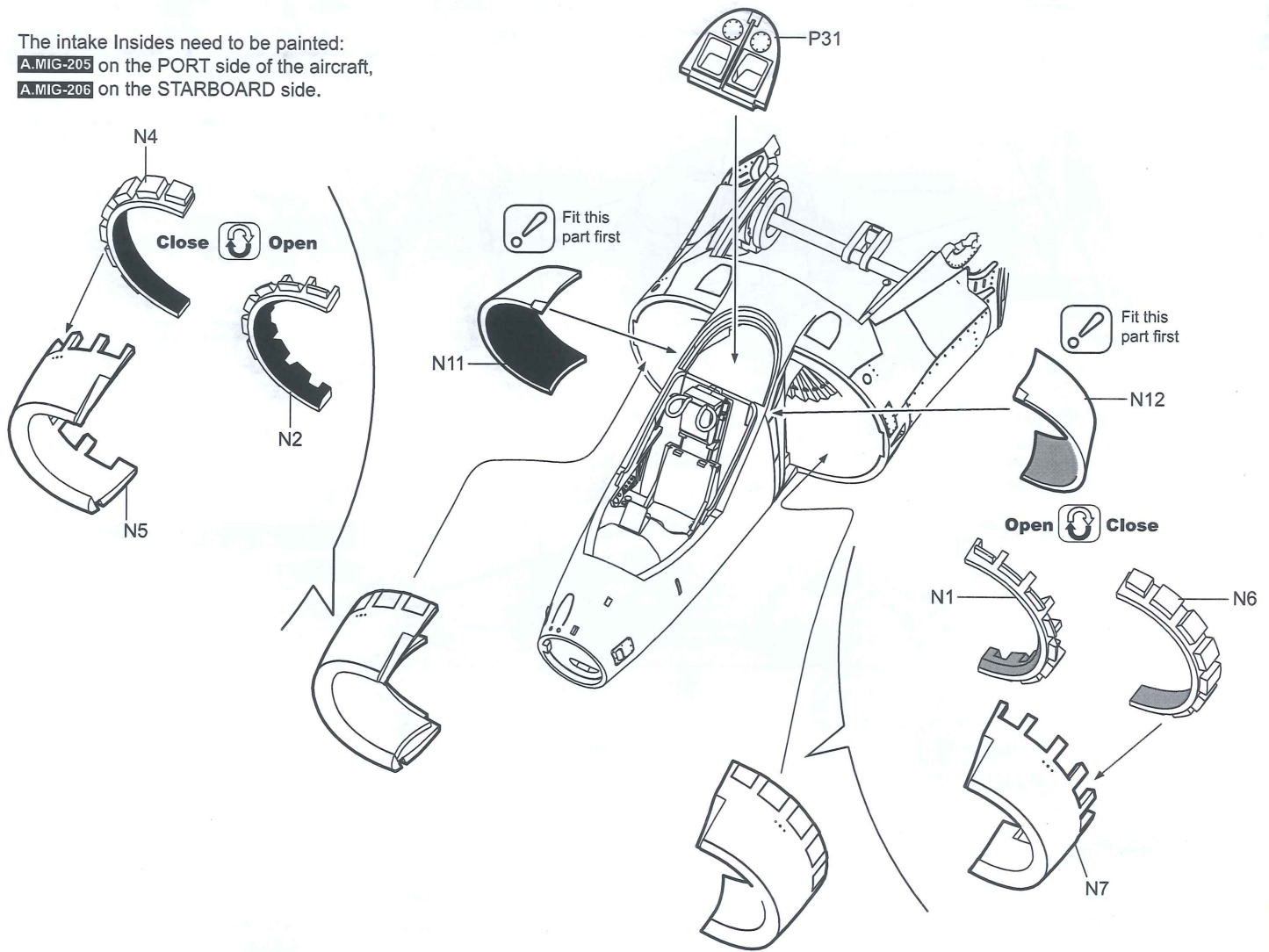
The interiors of the wheel bay need to be **A.MIG-047** White with **A.MIG-211** Medium Grey wiring and cylinder details.

6



7

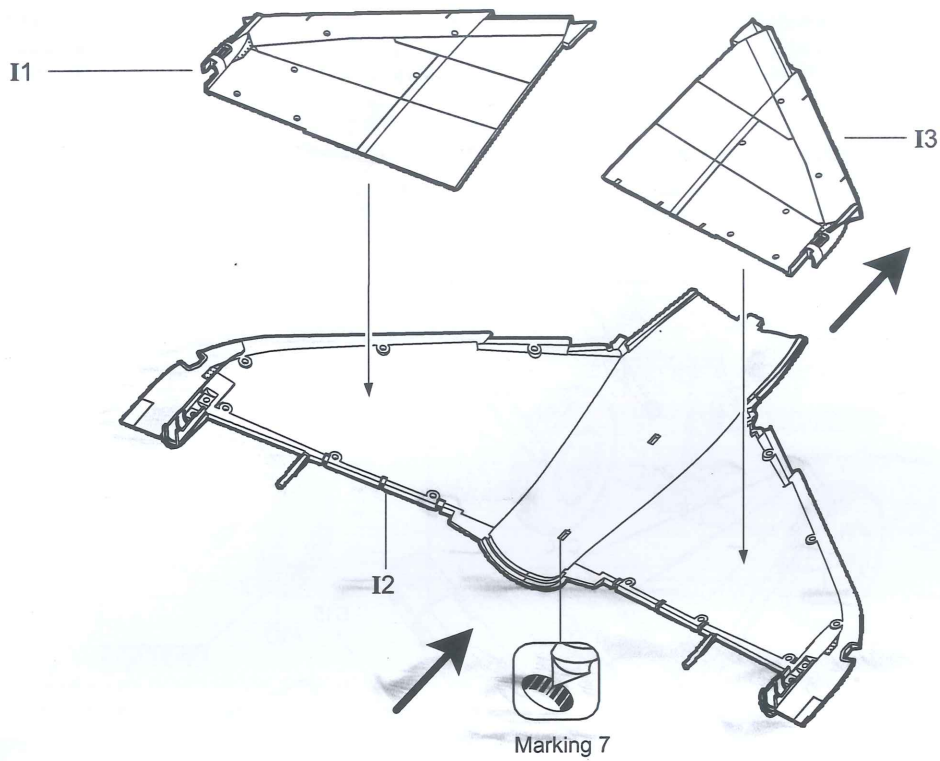
The intake Insides need to be painted:
A.MIG-205 on the PORT side of the aircraft,
A.MIG-206 on the STARBOARD side.



8



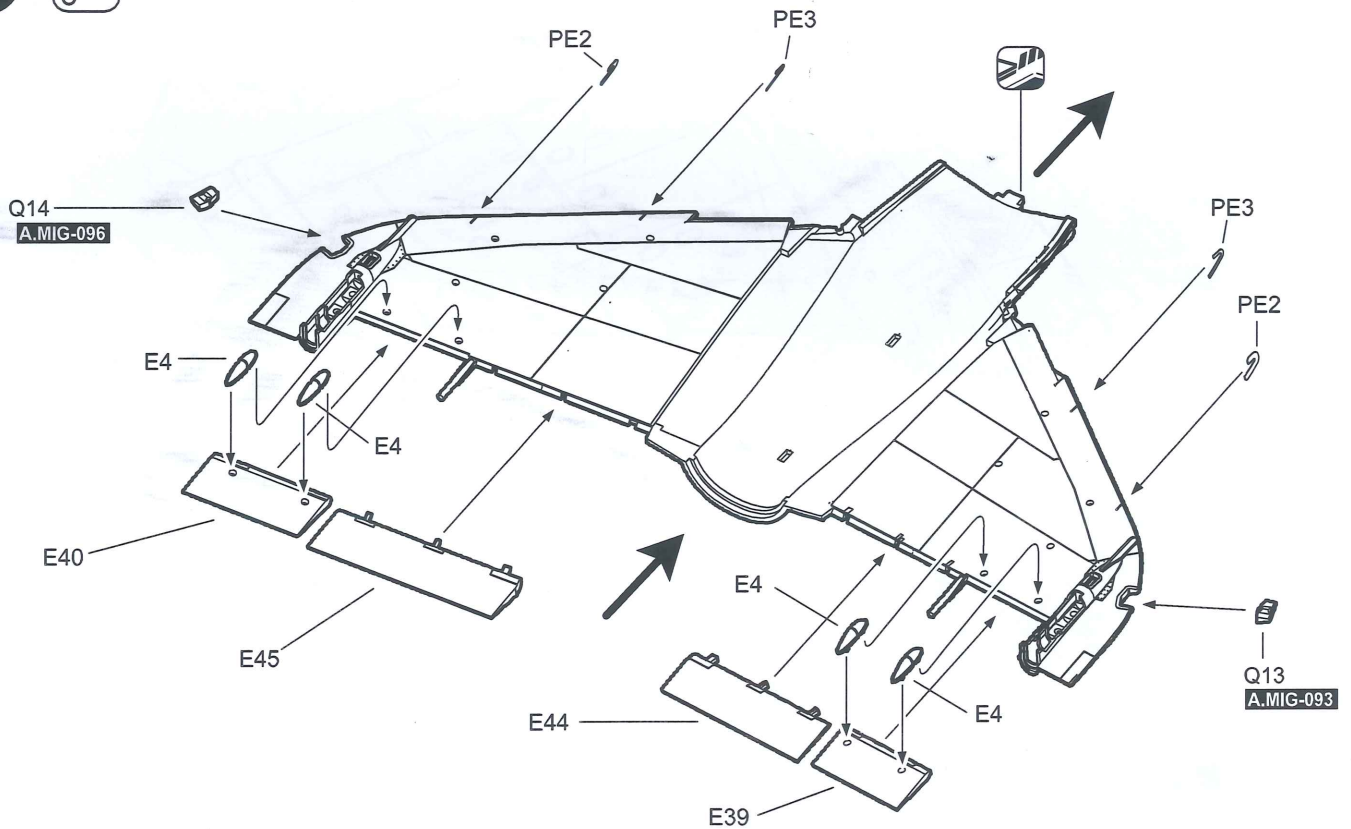
Wings are viewed from rear and underneath.



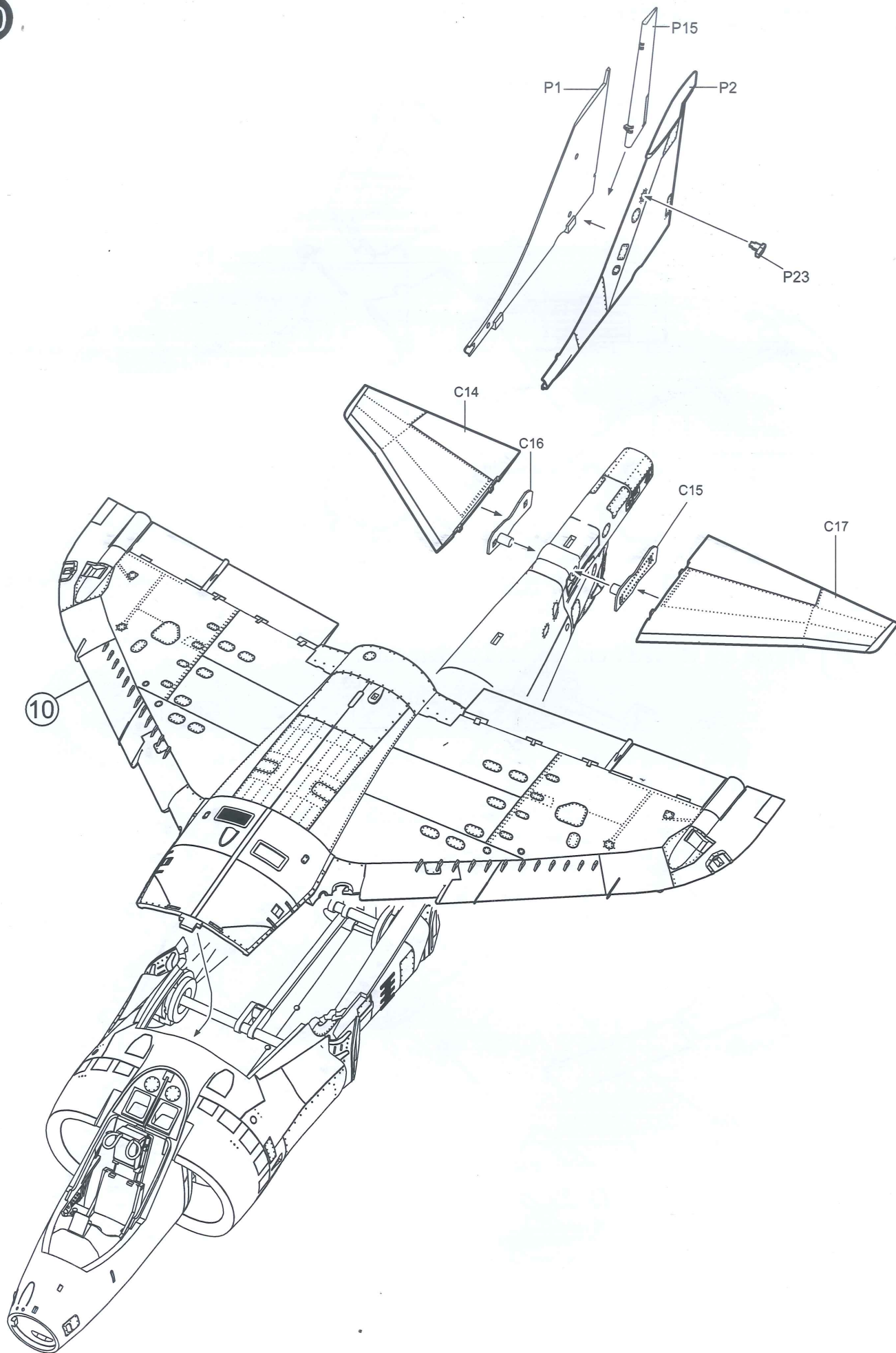
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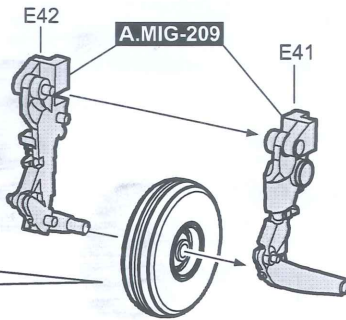
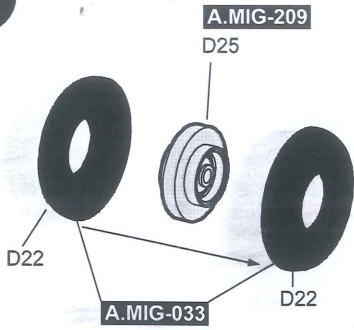
Wings are viewed from rear and underneath.



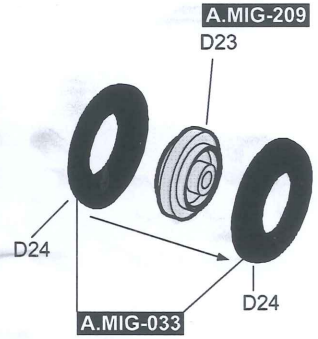
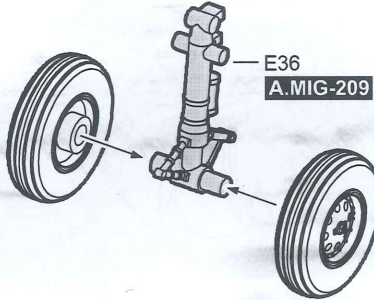
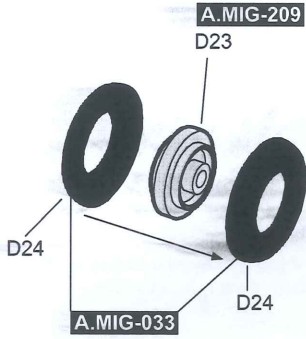
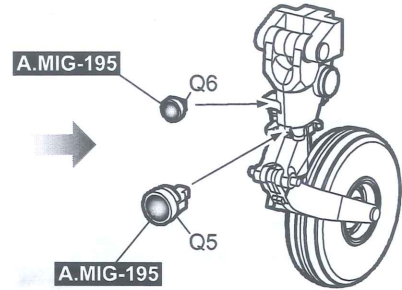
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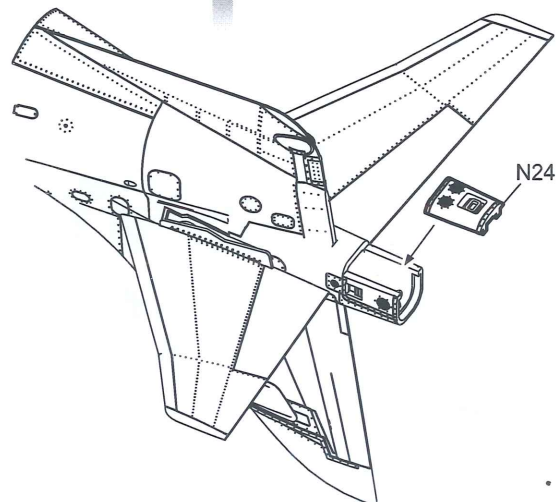
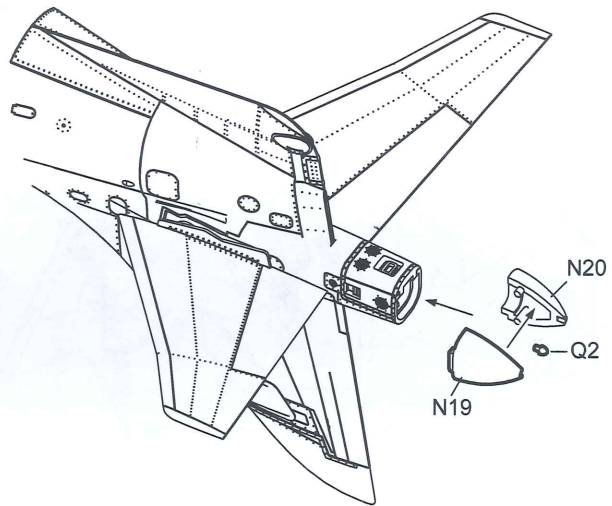
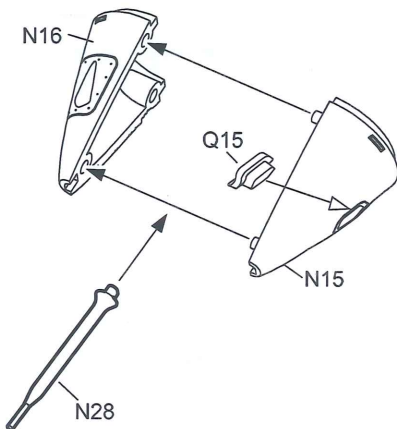
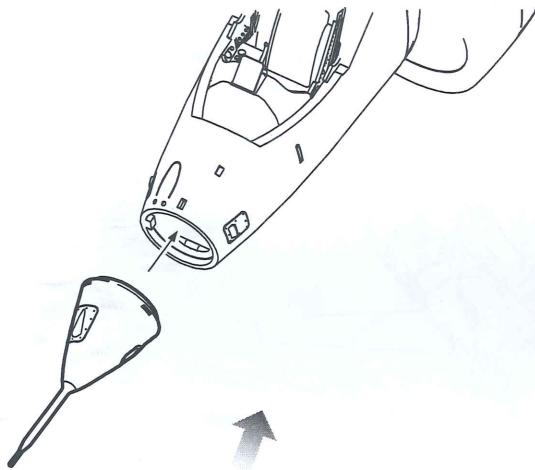
11



ALL Lights have clear lenses - Paint their surrounds
A.MIG-195 Silver first, then overpaint that Black A.MIG-046.

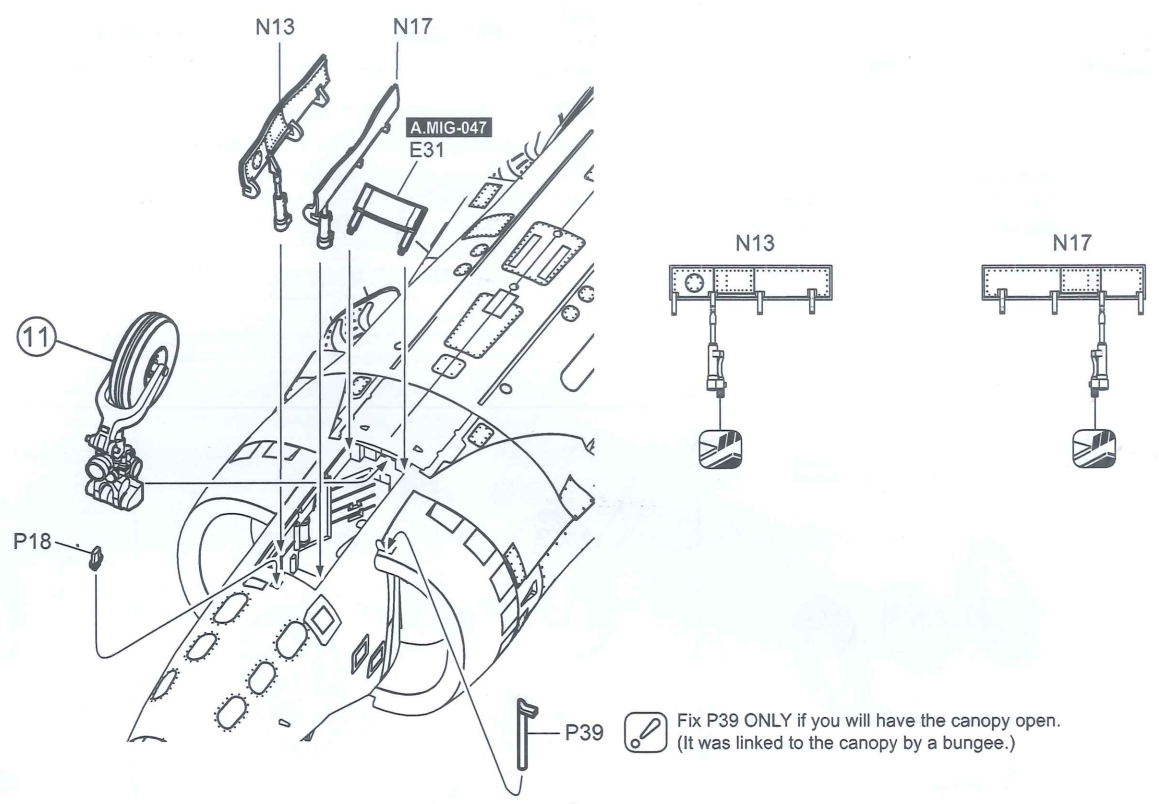


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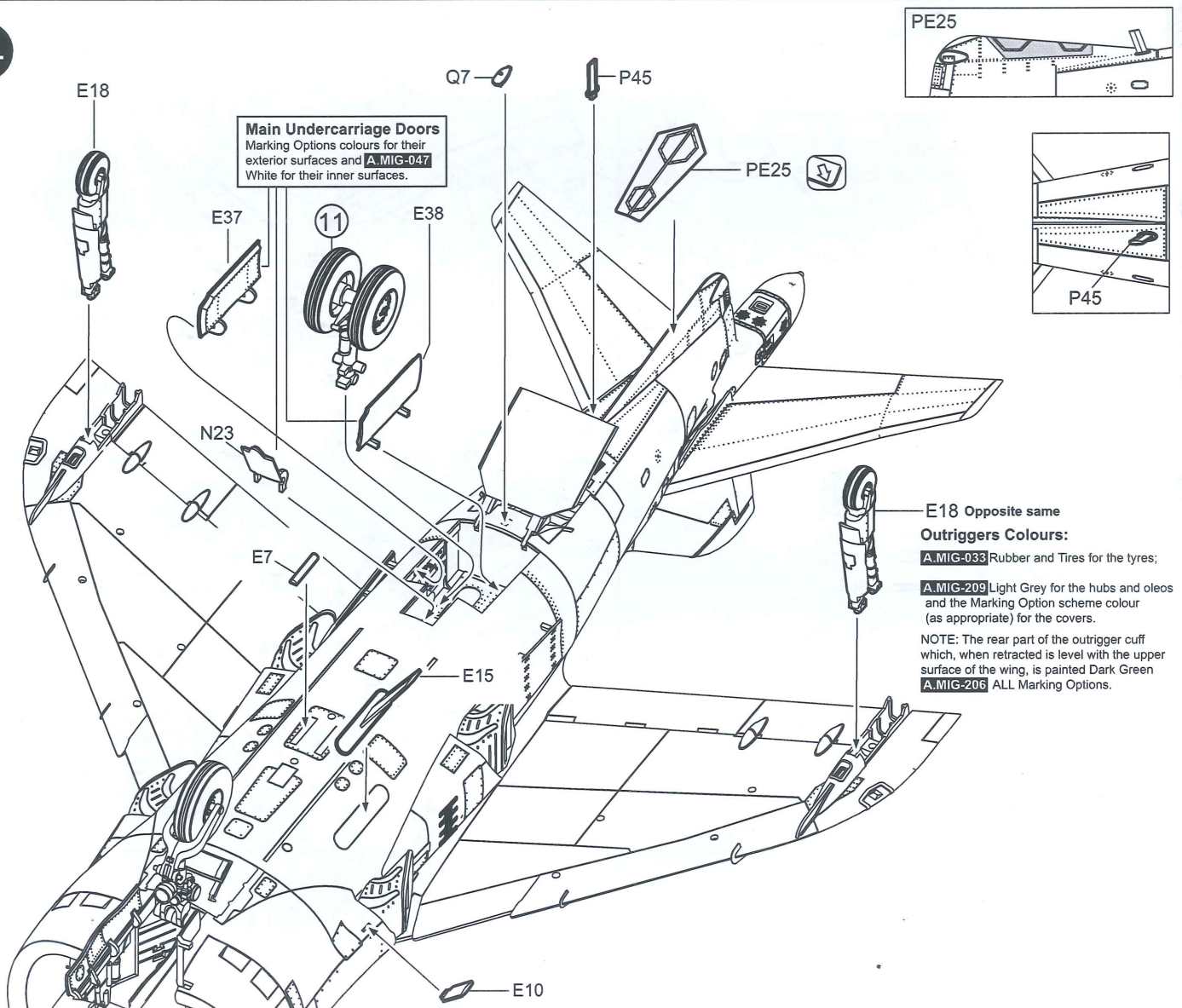


Marking 2

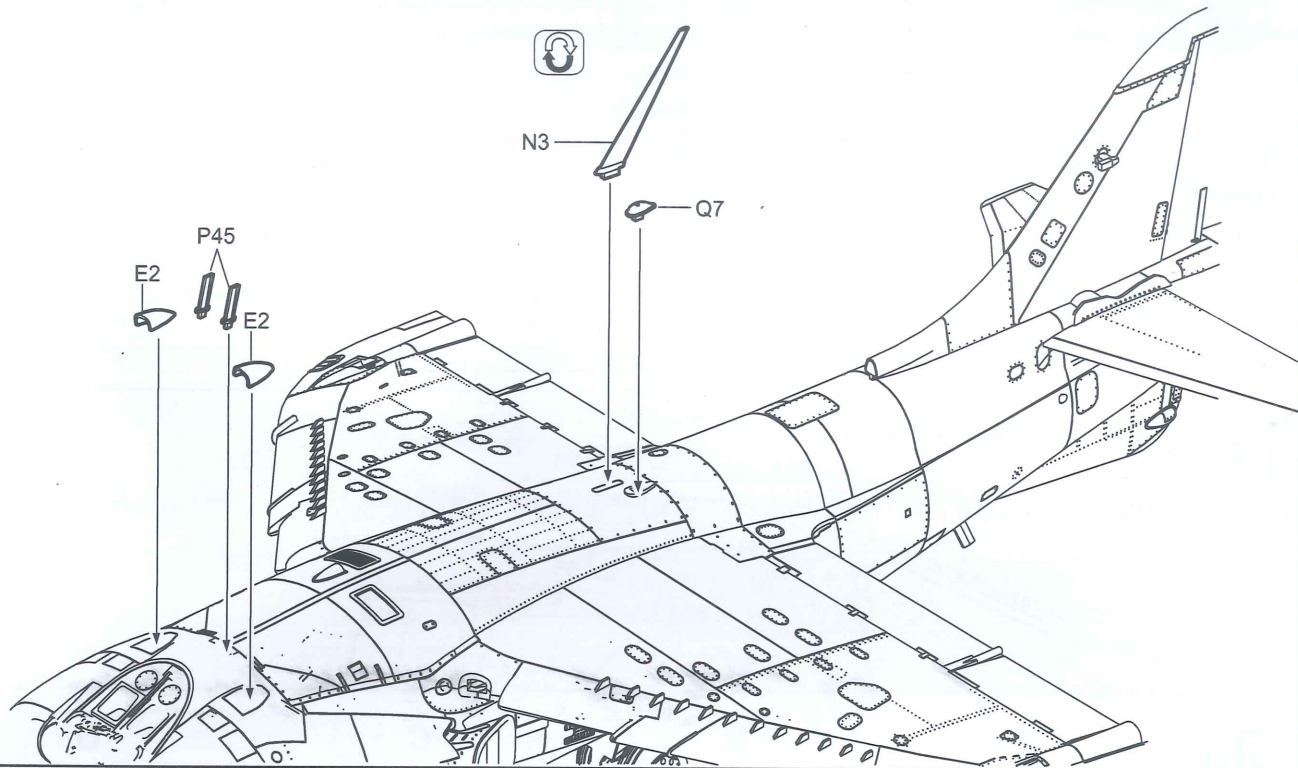
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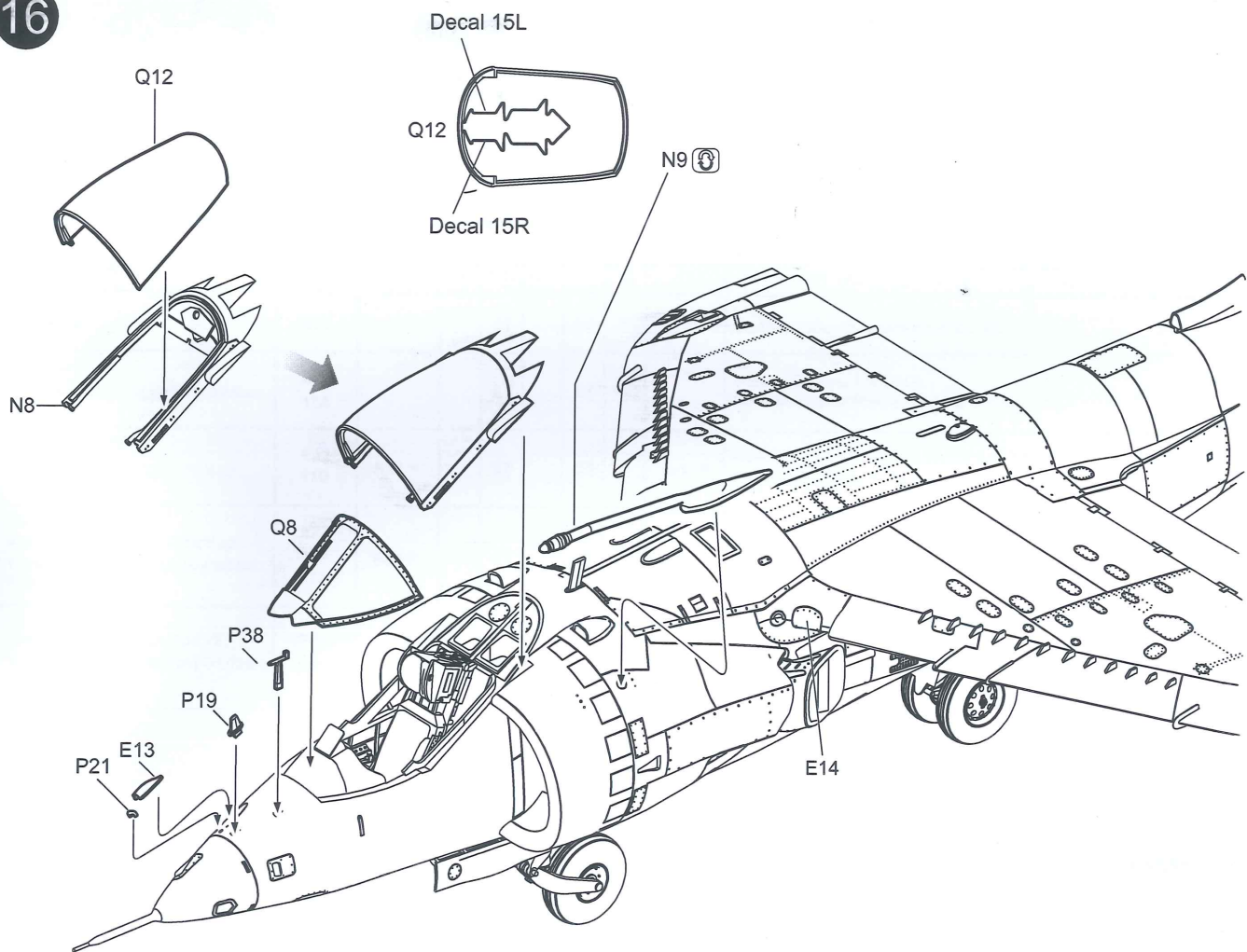
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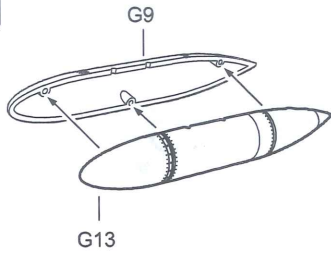
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16

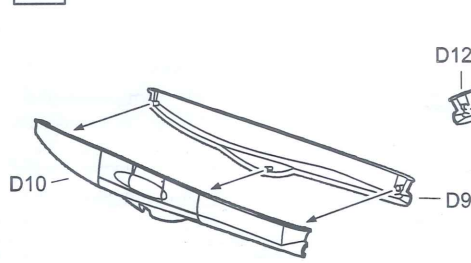


17 A x2



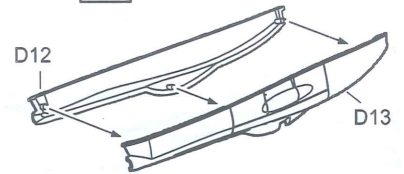
100-Gal (120 US Gal) Tank

B

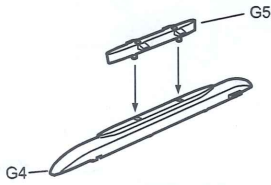


30mm ADEN Gun Pod

C

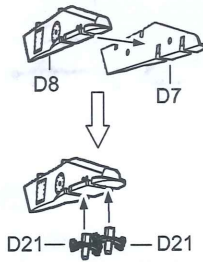


D x2 AIM-9 Sidewinder Rails

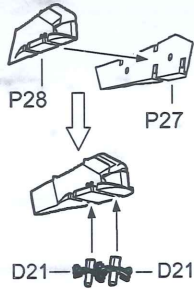


18

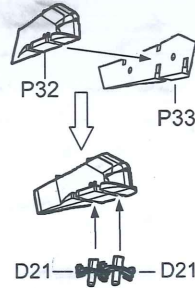
A



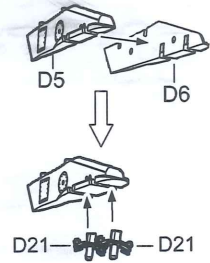
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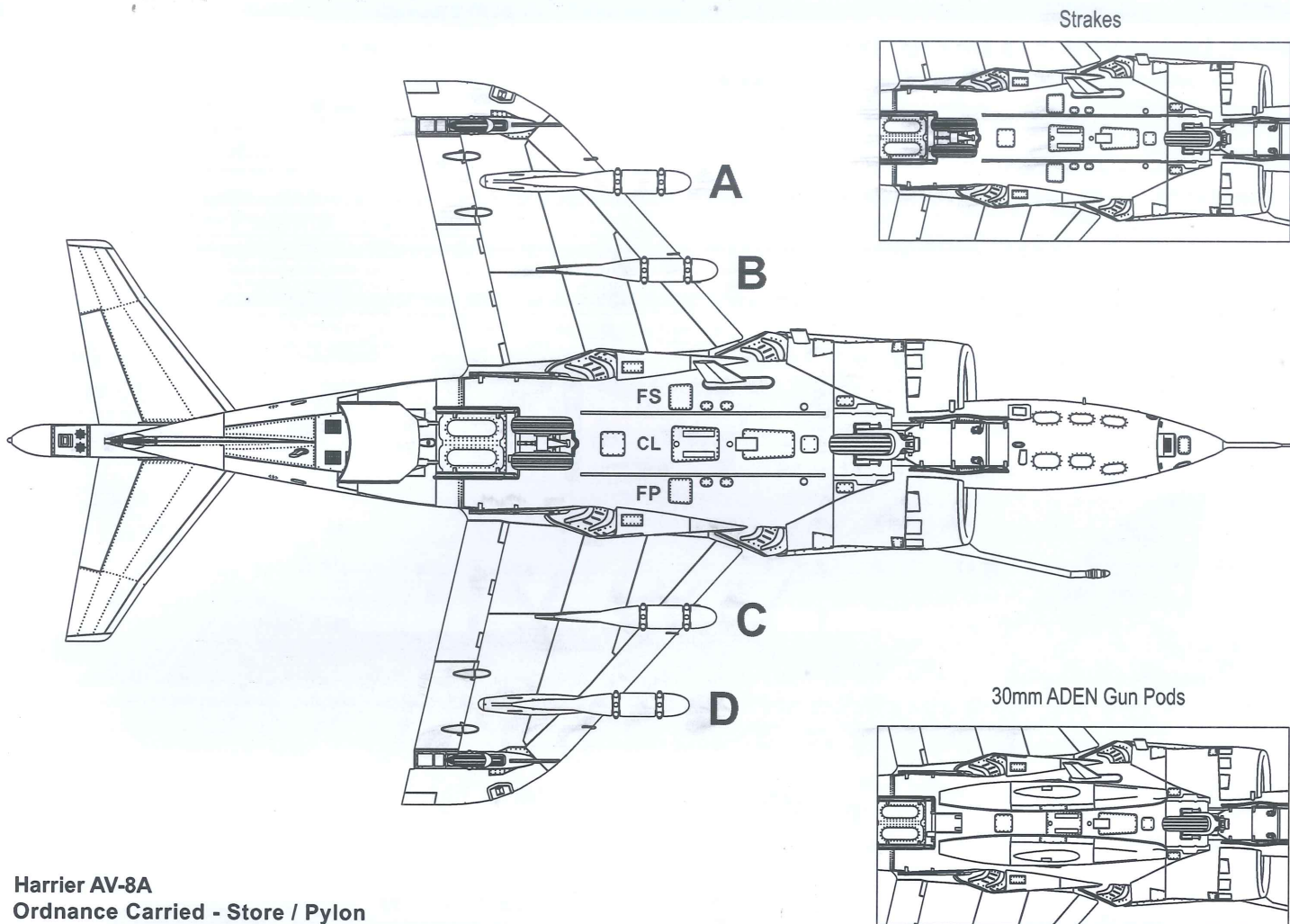


C



D



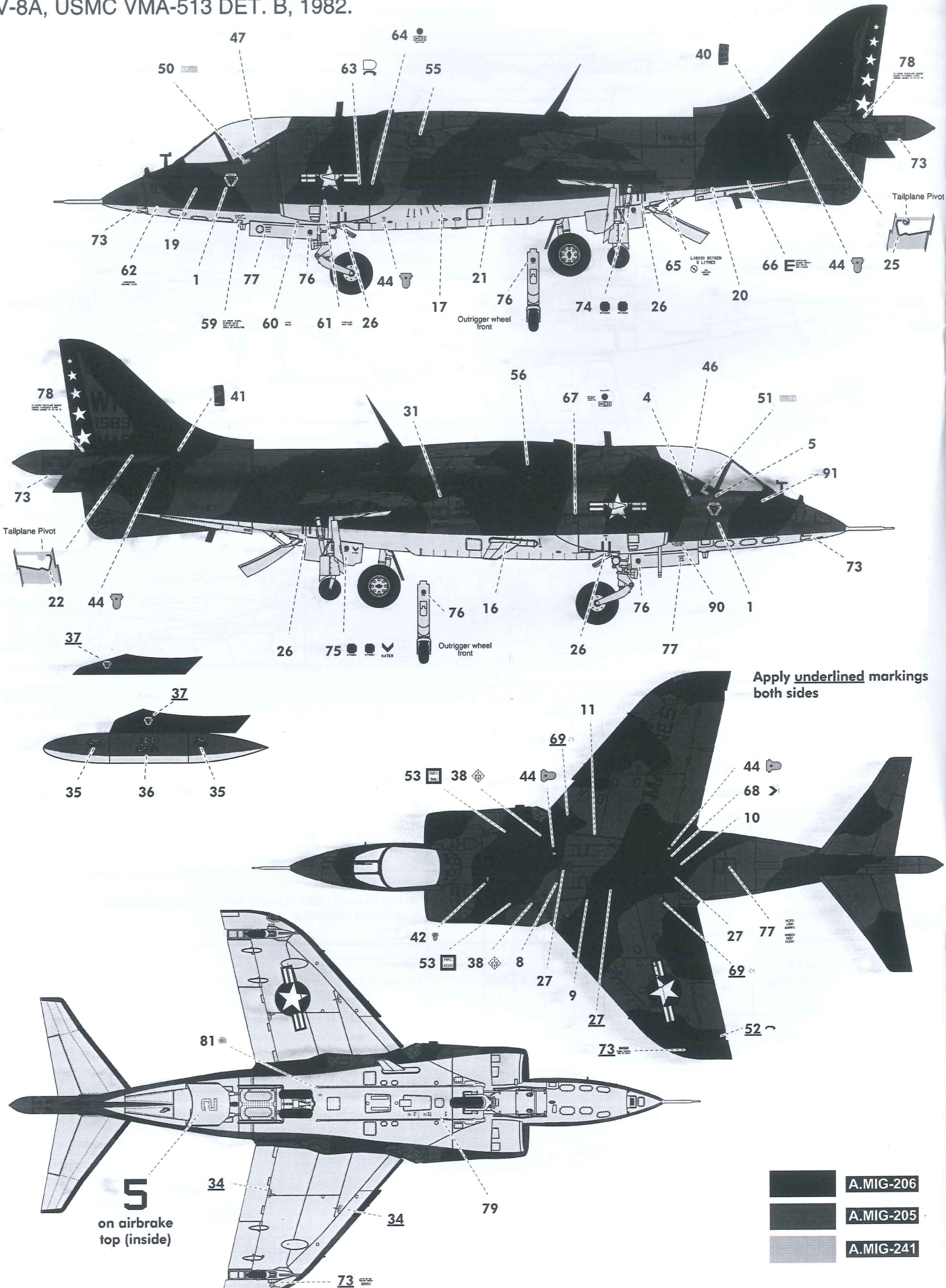


Harrier AV-8A
Ordnance Carried - Store / Pylon

Stores Configurations	Section/ Parts No.	A	B	FS	CL	FP	C	D	Notes for marking options
Strake x 2	E22			ST		ST			Marking Option 2. Centreline pylon fitted.
Strake x 2 100-Gallon (120 US Gallon) Combat Fuel Tank x2	E22 17A			ST		ST	100		Marking Options 1, 4 and 6. Centreline pylon fitted to Marking Option 1 ONLY.
Strake x 2 AIM-9 Sidewinder Rails ONI Y x2	E22 17D	AIM-R		ST		ST		AIM-R	Marking Option 3 - 159259 WH/25 AIM-9 rails, no Sidewinders. No centreline pylon fitted.
Strake x 2 AIM-9 Sidewinder Rails ONI Y x2 100-Gallon (120 US Gallon) Combat Fuel Tank x2	E22 17D 17A	AIM-R	100	ST		ST	100	AIM-R	Marking Option 3 - 158710 WH/25 AIM-9 rails, no Sidewinders. No centreline pylon fitted.
30mm ADEN Cannon Pod x2. 100-Gallon (120 US Gallon) Combat Fuel Tank x2	17B+C 17A		100	AD		AD	100		Marking Option 5. Centreline pylon optional.

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AV-8A, USMC VMA-513 DET. B, 1982.

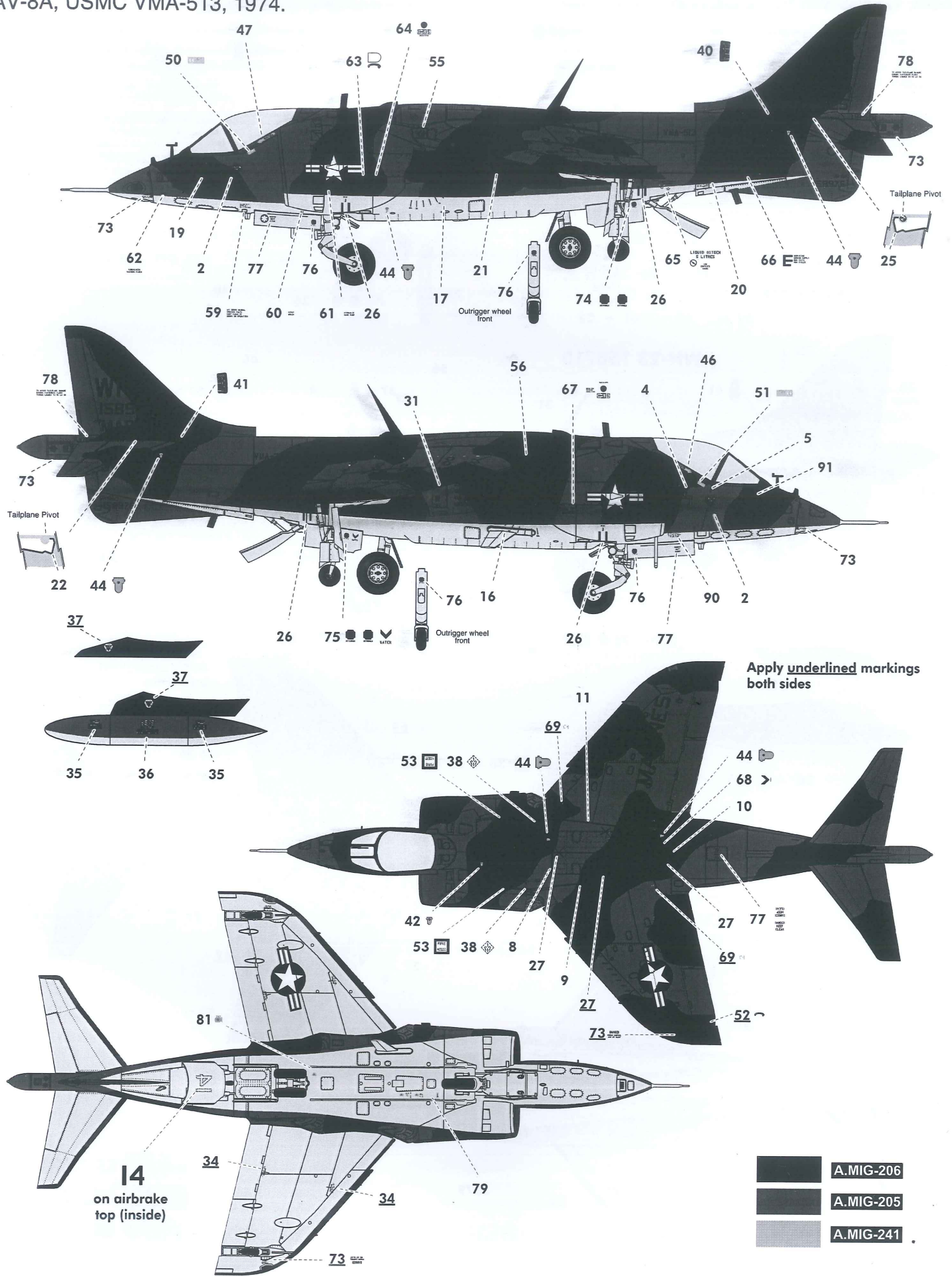


Apply underlined markings both sides

5
on airbrake
top (inside)

-  A.MIG-206
-  A.MIG-205
-  A.MIG-241

AV-8A, USMC VMA-513, 1974.



Apply underlined markings both sides

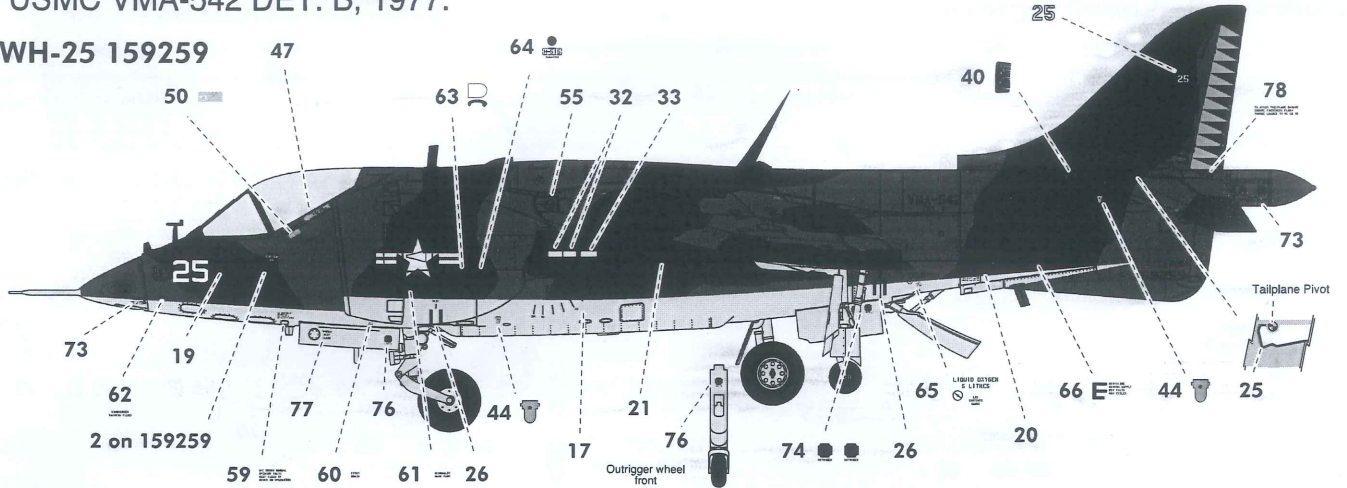
A.MIG-206
A.MIG-205
A.MIG-241

14
on airbrake
top (inside)

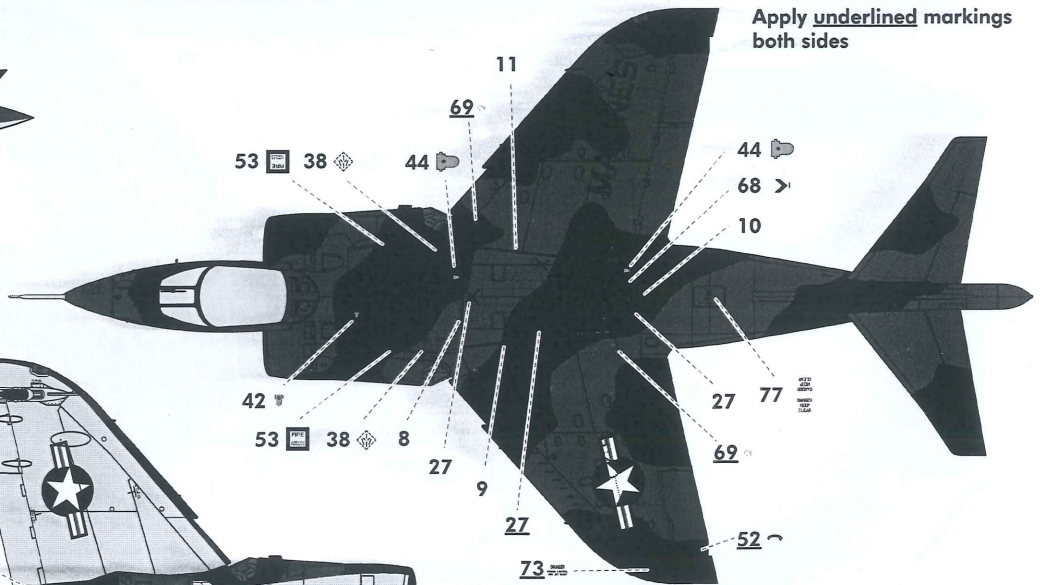
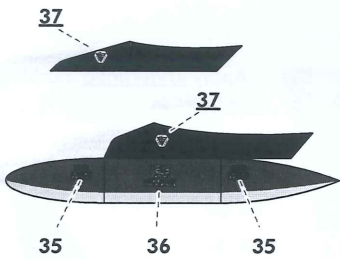
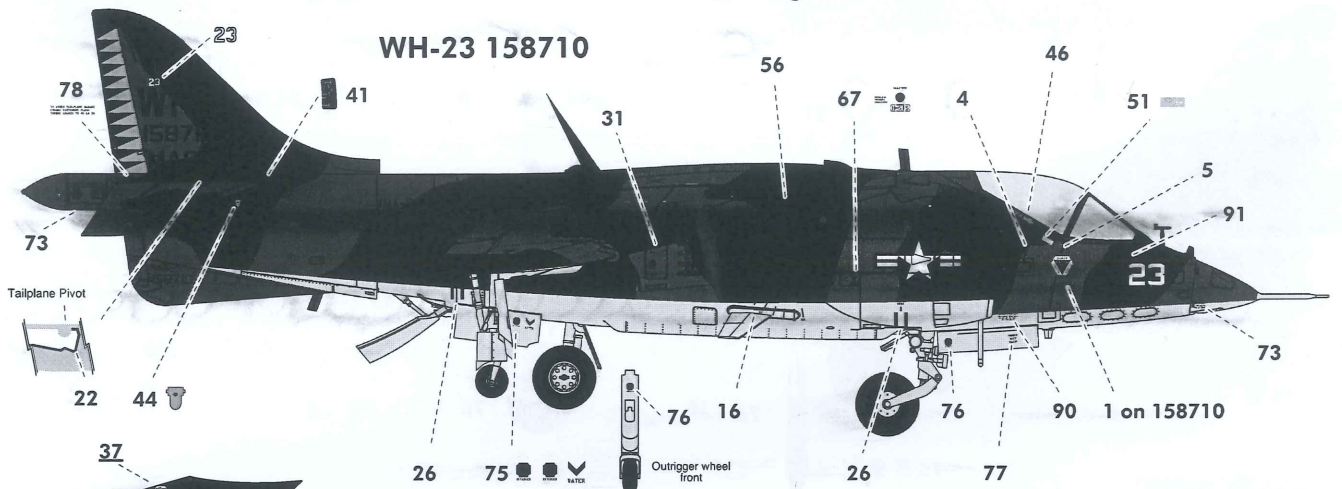
1/48 SCALE AIRCRAFT SERIES NO. K48072

AV-8A, USMC VMA-542 DET. B, 1977.

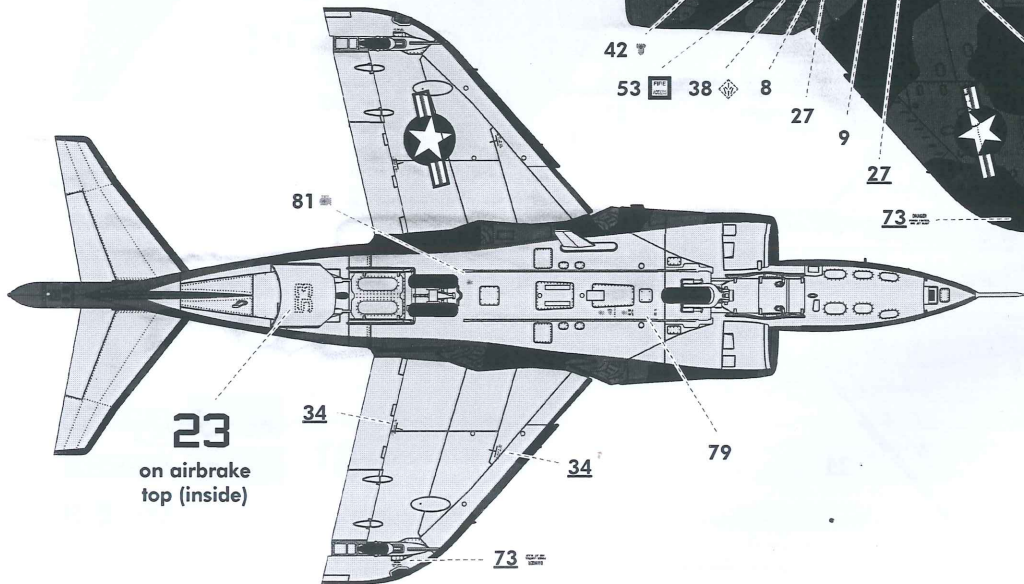
WH-25 159259



WH-23 158710



Apply underlined markings both sides

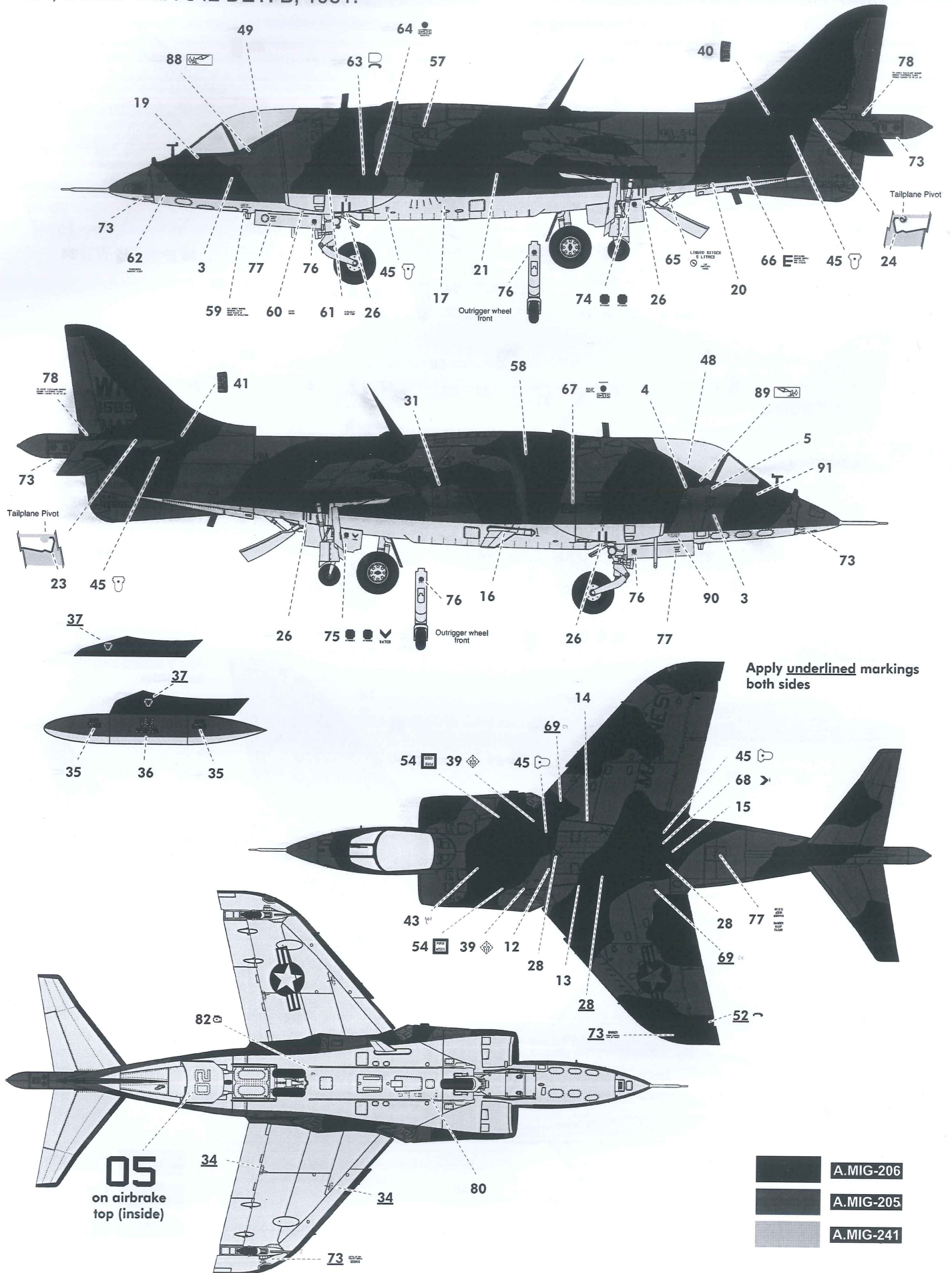


23
on airbrake
top (inside)

	A.MIG-206
	A.MIG-205
	A.MIG-241

1/48 SCALE AIRCRAFT SERIES NO. K48072

AV-8A, USMC VMA-542 DET. B, 1981.



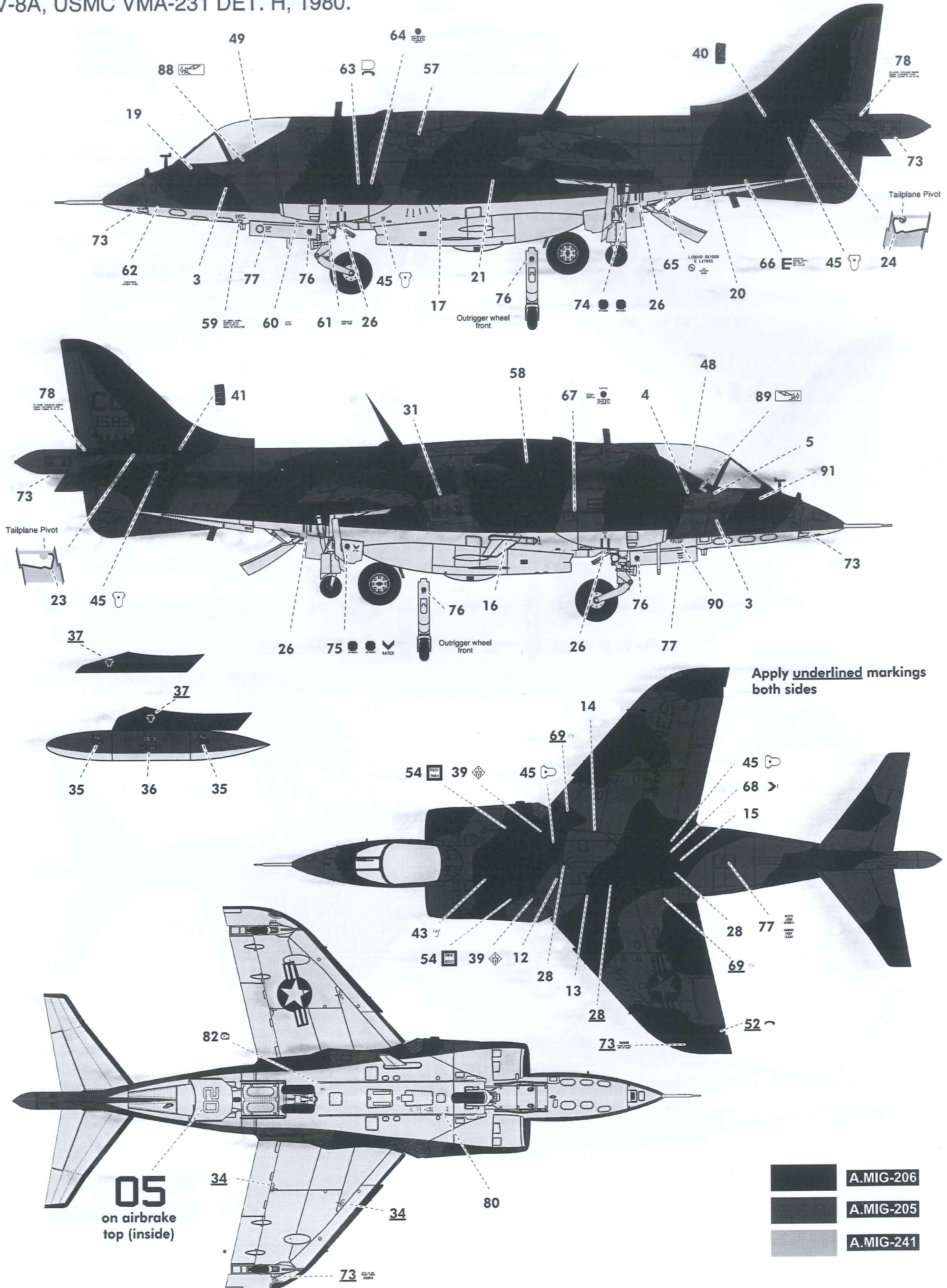
Apply underlined markings both sides

- A.MIG-206
- A.MIG-205
- A.MIG-241

05
on airbrake
top (inside)

1/48 SCALE AIRCRAFT SERIES NO. K48072

AV-8A, USMC VMA-231 DET. H, 1980.



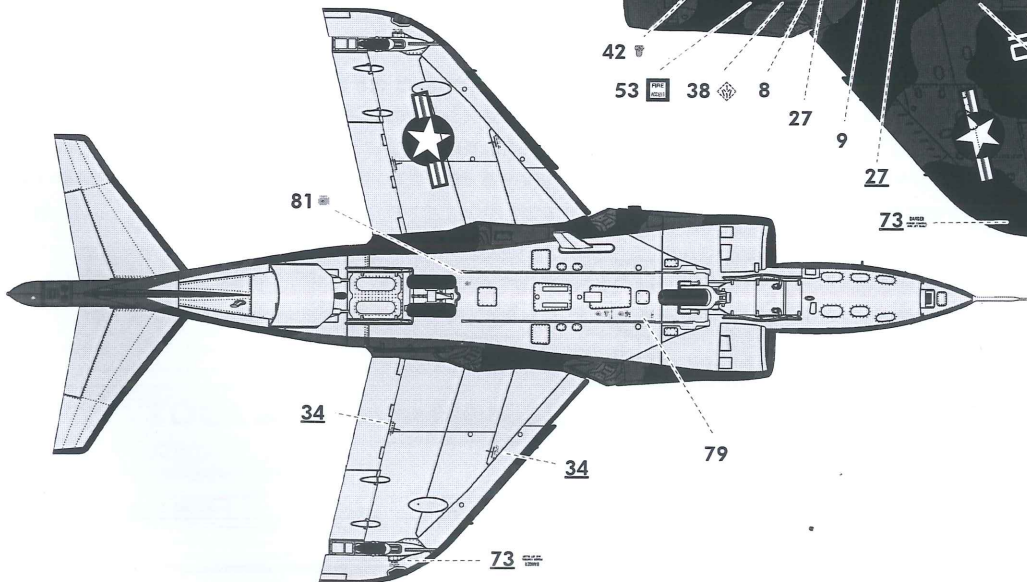
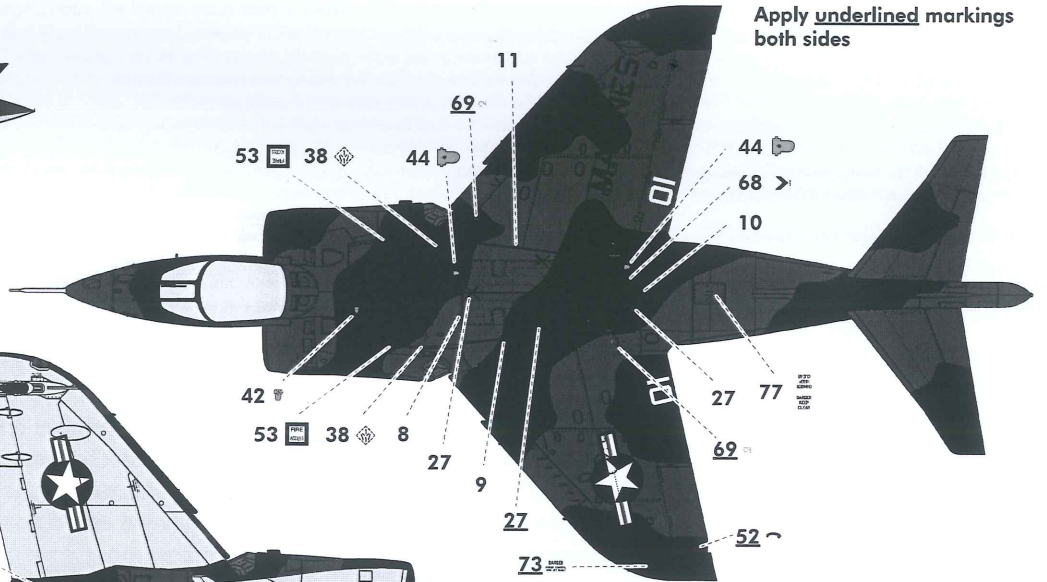
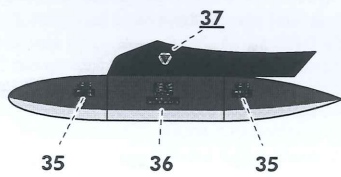
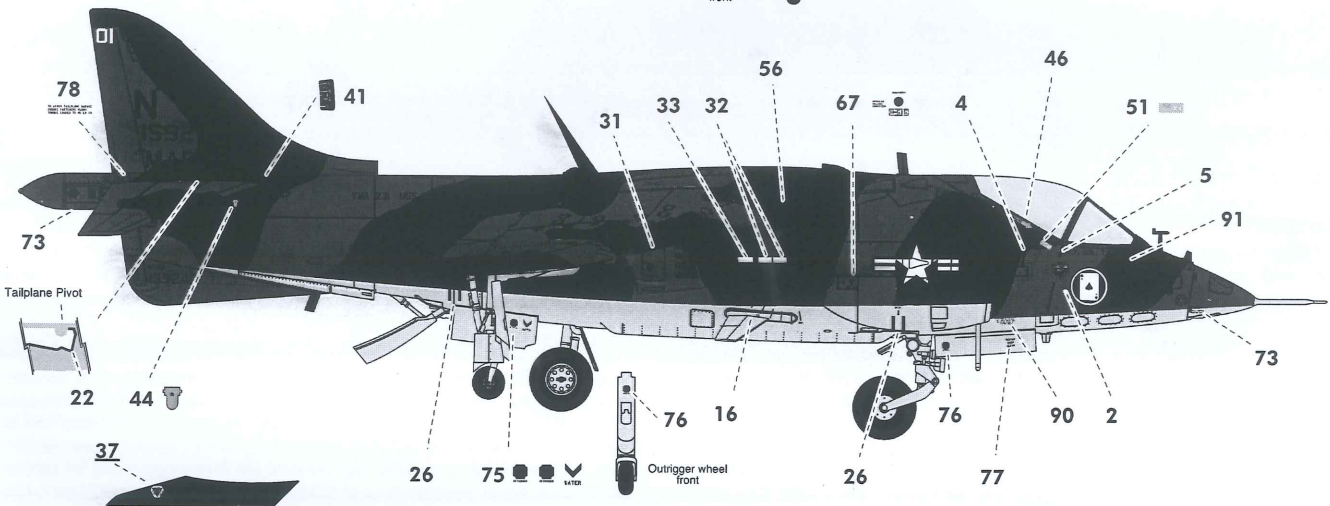
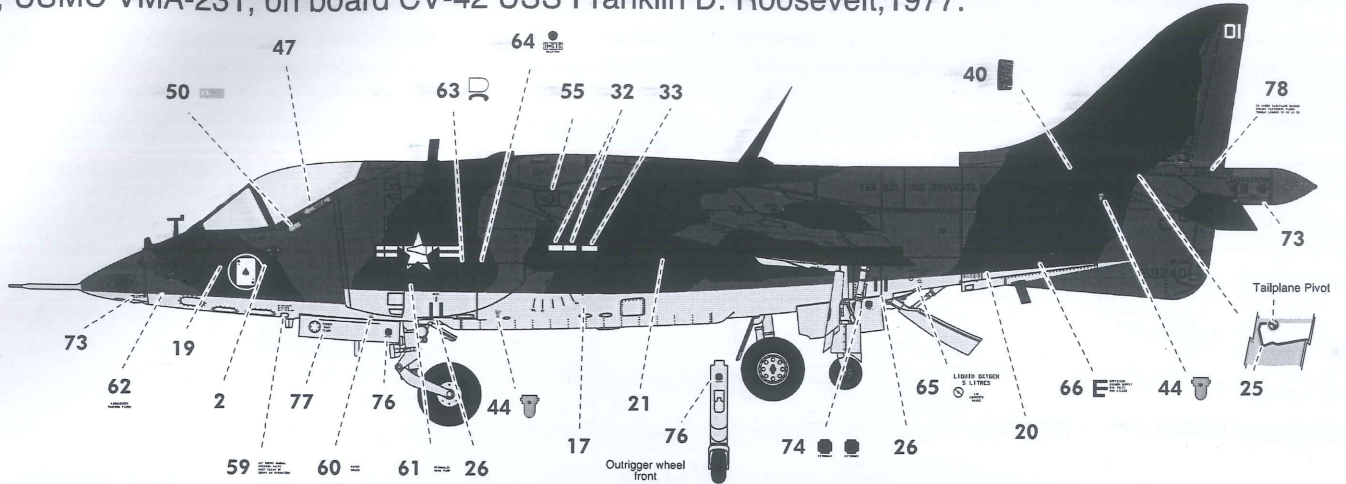
Apply underlined markings both sides

- A.MIG-206
- A.MIG-205
- A.MIG-241

05
on airbrake
top (inside)

1/48 SCALE AIRCRAFT SERIES NO. K48072

AV-8A, USMC VMA-231, on board CV-42 USS Franklin D. Roosevelt, 1977.



-  A.MIG-206
-  A.MIG-205
-  A.MIG-241