

Revell

Grumman A-6 E TRAM INTRUDER

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Grumman A-6 E Tram Intruder

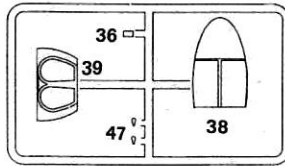
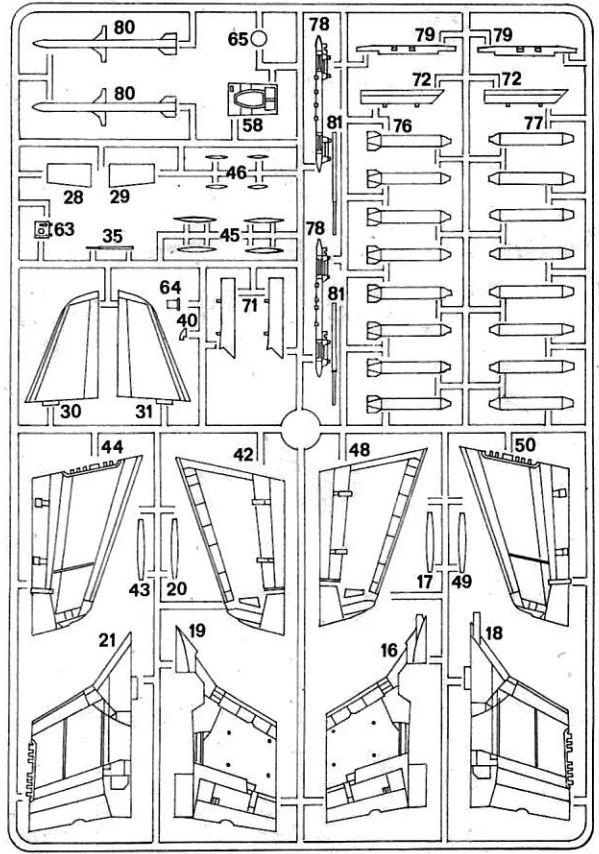
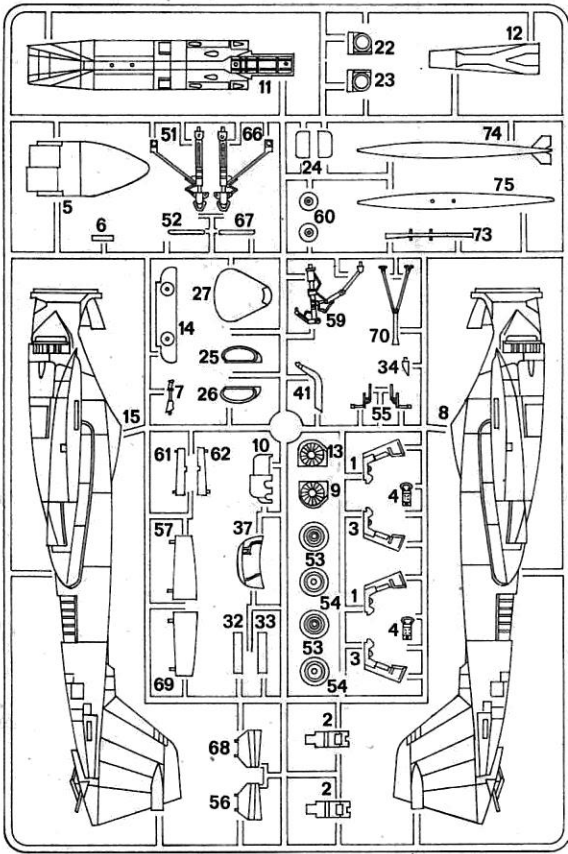
Grumman gelang es, den 1956 aufgestellten Anforderungskatalog der U.S. Navy für ein auf niedriger Höhe fliegendes Allwetter-Angriffsflugzeug mit hoher Leistungsfähigkeit im schallnahen Bereich zu erfüllen und erfolgreich ein Muster vorzustellen, das in der Lage war, im Kriegsfall eine Waffenladung von 6.804 kg (15.000 lb) inklusive AGM-12B Bullpup-Raketen mitzuführen. Die Maschine hatte ein eingebautes modernes „Digital Integrated Attack Navigation Equipment“, kurz „DIANE“ genannt („Digitale, Integrierte Angriffs- und Navigations-Ausrüstung“); acht Entwicklungsmaschinen unter der Bezeichnung A2F-1s (später in A-6A umbenannt) wurden 1959 bestellt, die erste flog 1960. Ab 1962 wurden Serienmaschinen geordert und die ersten von ihnen 1963 bei der U.S. Navy Squadron VA-45 zu Trainingszwecken in den Dienst gestellt. Als erster U.S. Marine Corps wurde VMA(AW) 242 mit ihnen ausgestattet, und Intruder beider Verbände wurden bald im Vietnam-Krieg stark beansprucht. Die A-6B, von der nur 19 Stück gebaut wurden, war eine verbesserte Version, die Anti-Radar-Einsätze flog, während die A-6C ein auch speziell für den Kriegsschauplatz Vietnam hergestelltes Muster war. Die endgültige Angriffsvariante, die für Kampfhandlungen eingesetzt wurde, war die A-6E, deren Avionik-Systeme durch eine verbesserte Version ersetzt worden waren und die von Pratt & Whitney J-52-P-8B Turbojet-Triebwerken mit 41 kN (9.300 lb.) Schubkraft angetrieben wurde. Die Flugzeuge der Serienproduktion waren eine Mischung aus neuen Teilen und Umrüstungen. Von 1979 an wurden die meisten Maschinen für das „Target Recognition Attack Multi-sensor“-System („TRAM“-„Zielerfassungs- und Angriffs-Multisensor-System“) umgebaut, und eine lasergesteuerte Erkennungs- und Abstandserfassungsausrüstung mit Infrarotsensor in einem auffälligen turmartigen Gehäuse („Radom“) unter der Flugnase angebracht. Ab Mitte der 1980er Jahre erhielten viele A-6E neue Tragflächen aus einer Verbundstoffkonstruktion und das „System Weapons Improvement Program (SWIP)“, „Systemwaffen Verbesserungsprogramm“), durch das die Maschinen in die Lage versetzt wurden, modernere Distanzwaffen wie Maverick, Harpoon/SLAM und die AGM-88 HARM einzusetzen. Obwohl die Intruder nach dem Vietnam-Krieg immer wieder nur für kleinere Einsätze verwendet wurden, kamen ihre nächsten größeren Aufgaben mit der Libyen-Krise 1986 und dem Golfkrieg 1991; die USMC-Einheit VMA(AW)533, die bereits im Vietnam-Krieg Intruder eingesetzt hatte, diente – stationiert in Bahrain – wieder mit Bravour im Golfkrieg von 1991 (Dank geht an David F. Brown, der Details über diese Maschinen beigesteuert hat.) USMC Intruder wurden 1993 aus dem aktiven Dienst entfernt, USN A-6E dienten jedoch noch bis März 1997. Das ursprüngliche Muster führte zu weiteren Versionen wie der KA-6D, EA-6A und der viersitzigen EA-6B Prowler ECM, die noch für einige Jahre im Einsatz bleiben wird. Die A-6E erreichte eine Höchstgeschwindigkeit von 1.036 km/h (644 mph); Spannweite: 16,15 m (53 ft.), Länge: 16,69 m (54 ft. 9 in.), Höhe: 4,93 m (16 ft 2 in.).

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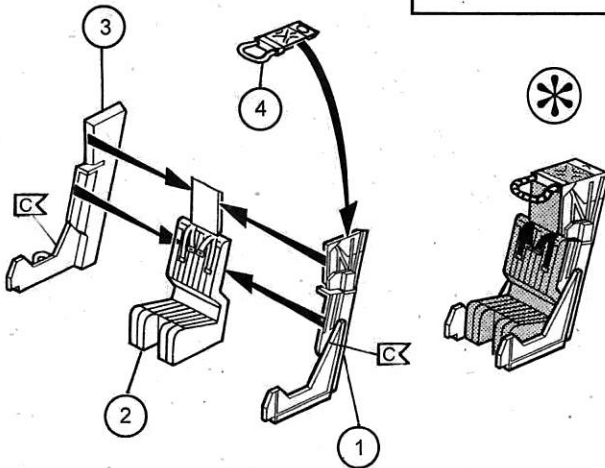
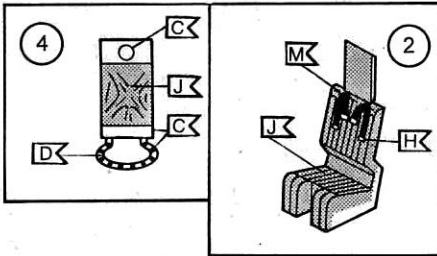
Designed to meet a 1956 U.S. Navy specification for a low level, all weather attack aircraft with a high subsonic performance, Grumman successfully proposed their design capable of carrying a 6,804 kg (15,000 lb) war load including AGM-12B Bullpup missiles. The aircraft incorporated an advanced Digital Integrated Attack Navigation Equipment (DIANE) system; eight development A2F-1s (later redesignated A-6A) were ordered in 1959, the first flying in 1960. Production orders were placed from 1962 with the first machines entering US Navy training service with VA-45 in 1963; the first US Marine Corps to equip was VMA(AW)242. Intruders of both services were soon heavily engaged in the Vietnam War. The A-6B was an improvement, designed to operate in the anti-radar role; only 19 were built, while the A-6C was also a specialised version for the Vietnam theatre. The final attack variant to see operational service was the A-6E, this having a complete avionics upgrade and powered with 41kN (9,300 lb.) thrust Pratt & Whitney J52-P-8B turbojets. Production aircraft were a mixture of new build and conversions; from 1979 most were modified to have the Target Recognition Attack Multi-sensor (TRAM) system with its prominent undernose turret housing laser designation/rangefinding and infra-red sensor equipment. From the mid-1980s many A-6Es received new wings of composite construction together with the Systems Weapons Improvement Program (SWIP) which would allow the aircraft to use more modern stand-off weapons such as the Maverick, Harpoon/SLAM and the AGM-88 HARM. Although Intruders were used in some minor actions following the Vietnam War their next major commitments came during the Libyan crisis of 1986 and the Gulf War of 1991. USMC unit VMA(AW)533 had first used their Intruders in Vietnam and this unit again served with distinction in the 1991 Gulf War, based in Bahrain. (Thanks to David F Brown for supplying details of these aircraft.) USMC Intruders were withdrawn from service in 1993 and USN A-6Es continued until March 1997; the original design led to other versions such as the KA-6D, EA-6A and the four-seat EA-6B Prowler ECM version which will remain in service for several years. The A-6E had a maximum speed of 1,036km/h (644mph); wing span: 16.15m (53ft.) Length: 16.69m (54ft 9in.) Height: 4.93m (16ft 2in.)

Benötigte Farben / Used Colors

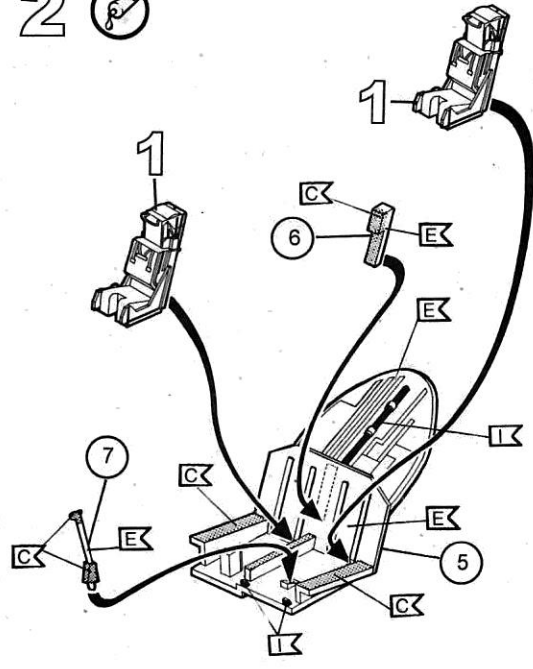
Benötigte Farben Required colours	Peintures nécessaires Benodigde kleuren	Pinturas necesarias Tintas necessárias	Colori necessari Använda färger	Tarvittavat värit Du trenger følgende farger	Nødvendige farger Необходимые краски	Potrzebne kolory Απαιτούμενα χρώματα	Gerekti renkler Potřebné barvy	Szükséges színek. Potrebne barve	
20%	80%	40%	60%	C	D	40%	E	60%	
weiß, matt 5 white, matt blanc, mat wit, mat bianco, mate branco, fosco bianco, opaco vit, matt valkoinen, himmeä hvít, mat hvít, matt белый, матовый biely, matový λευκό, ματ beyaz, mat bílá, matná fehér, matt bela, mat	+ grau, matt 57 grey, matt gris, mat grijs, mat gris, mate cinzento, fosco grigio, opaco grå, matt harmaa, himmeä grá, mat grá, matt серый, матовый szary, matový γκρι, ματ gri, mat grá, matná szürke, matt siva, mat	weiß, matt 5 white, matt blanc, mat wit, mat bianco, mate branco, fosco bianco, opaco vit, matt valkoinen, himmeä hvít, mat hvít, matt белый, матовый biely, matový λευκό, ματ beyaz, mat bílá, matná fehér, matt bela, mat	+ grau, matt 57 grey, matt gris, mat grijs, mate gris, mate cinzento, fosco grigio, opaco grå, matt harmaa, himmeä grá, mat grá, matt серый, матовый szary, matový γκρι, ματ gri, mat grá, matná szürke, matt siva, mat	C anthrazit, matt 9 anthracite grey, matt anthracit, mat anthracit, mat anthracite, mate antracite, fosco antracite, opaco antracit, matt antrasiliti, himmeä koksrá, mat antrasilit, matt антрацит, матовый antracyt, matový ανθρακί, ματ antrasit, mat antracit, matná antracit, matt tarmo siva, mat	D gelb, matt 15 yellow, matt jaune, mat geel, mat amarillo, mate anarillo, fosco giallo, opaco gul, matt keltainen, himmeä gul, mat gul, matt желтый, матовый žltý, matový κίτρινο, ματ sarı, mat žlutá, matná sárga, matt rumena, mat	40% grau, matt 57 grey, matt gris, mat grijs, mat gris, mate cinzento, fosco grigio, opaco grå, matt harmaa, himmeä grá, mat grá, matt серый, матовый szary, matový γκρι, ματ gri, mat grá, matná szürke, matt siva, mat	+ mausgrau, matt 47 mouse grey, matt gris souris, mat muisgrijs, mat gris ratón, mate cinzento pardo, fosco grigio topo, opaco musgrá, matt hiirenharmaa, himmeä musegrá, matt musegrá, matt мышино-серый, матовый myszaty, matový γκρι ποικιλίου, ματ fare griși, mat myši šedá, matná egérszürke, matt mišje siva, mat		
F	G	H	I	50%	J	50%			
karminrot, matt 36 carmin red, mat rouge carmin, mat karminrood, mat carmin, mate vermelho carmin, fosco rosso carminio, opaco karminröd, mat karminipunainen, himmeä karminrød, mat кармин, матовый karminowy, matový κόκκινο δαίηδ, ματ läli rengi, mat krbové červená, matná kármínpiros, matt šminka rdeča, mat	weiß, matt 5 white, matt blanc, mat wit, mat bianco, mate branco, fosco bianco, opaco vit, matt valkoinen, himmeä hvít, mat hvít, matt белый, матовый biely, matový λευκό, ματ beyaz, mat bílá, matná fehér, matt bela, mat	silber, metallic 90 silver, metallic argent, métallique zilver, metallic prata, metalizado prata, metalico argento, metallico silver, metallic hopea, metallikiilto sølv, metallak sølv, metallic серебряный, металл srebro, metaliczny οσημί, μεταλλικό gümüş, metalik stříbrná, metaliza ezüst, metall srebrna, metalik	eisen, metallic 91 steel, metallic coloris fer, métallique ijzerkleuring, metallic ferroso, metalizado ferro, metalico ferro, metallico järnfärg, metallic teräksenvärinen, metallikiilto jern, metallak jern, metallic стальной, металл żelazo, metaliczny σιδηρού, μεταλλικό demir, metalik železná, metaliza vas, metall železna, metalik	nato-oliv, matt 46 Nato-olive, matt olive O.T.A.N., mat Nato-oliv, mat aceituna Nato, mate oliva Nato, fosco oliva nato, opaco Nato-oliv, matt nato olivi, himmeä Nato-oliv, mat NATO-olivén, matt оливковый "НАТО", матовый olivk. NATO, matový χακί του NATO, ματ nato yeşili, mat olivová NATO, matná Nato-oliv, matt NATO oliva, mat	+ bronzegrün, matt 65 bronze green, matt vert bronze, mat bronzegroen, mat verde broncinco, mate verde bronze, fosco bronzgrün, mat pronssi vihreä, himmeä bronzegroen, mat bronzegrün, matt бронзово-зеленый, матовый brązowozielony, matový πράσινο μπρούτζου, ματ bronz yeşili, mat bronzová zelená, matná bronzöld, matt bronza zelena, mat				
K	60%	L	40%	M	N	O			
seegrün, matt 48 sea green, matt vert d'eau, mat zeegroen, mat verde mar, mate verde-mar, fosco verde lago, opaco havsgrün, matt merevihreä, himmeä havgrøn, mat sjøgrønn, matt зеленый морской, матовый zieleń morska, matový πράσινο λιμνής, ματ göl yeşili, mat mořská zelená, matná tengerzöld, matt morskó zelena, mat	rost, matt 83 rust, matt rouille, mat roest, mat orin, mate ferrugem, fosco color ruggine, opaco rost, matt ruoste, himmeä rust, matt ржавчина, матовый rdzawy, matový χρώμα οκουριάς, ματ pas rengi, mat rezavá, matná rozsda, matt rjava, mat	+ eisen, metallic 91 steel, metallic coloris fer, métallique ijzerkleuring, metallic ferroso, metalizado ferro, metalico ferro, metallico järnfärg, metallic teräksenvärinen, metallikiilto jern, metallak jern, metallic стальной, металл żelazo, metaliczny σιδηρού, μεταλλικό demir, metalik železná, metaliza vas, metall železna, metalik	beige, matt 89 beige, matt beige, mat beige, mat beige, mate bege, fosco beige, opaco beige, matt beige, himmeä beige, mat beige, matt бежевый, матовый bežový, matový μπες, ματ bej, mat bežová, matná bézs, matt bež (slonova kost), mat	moosgrün, glänzend 62 mossy green, gloss vert mousse, brillant moosgroen, glansend verde musgo, brillante verde musco, brillante mossgrün, blank sammaleenvihreä, kiiltävä moosegrøn, skinnende мохово-зеленый, блестящий zielony mech, blyszczący πράσινο βρύων, γυαλιστερό yosun yeşili, parlak mechová zelená mohazöld, fényes mah zelena, bleskajoča	dunkelrot, glänzend 82 dark red, gloss rouge foncé, brillant donkerrood, glansend rojo oscuro, brillante vermelho escuro, brilhante rosso scuro, lucente mörkröd, blank tummarpunainen, kiiltävä mørkerød, skinnende темно-красный, блестящий ciemnoczerwony, blyszczący κοκίνο κόκκινο, γυαλιστερό koyu kırmızı, parlak tmavočervená, lesklá sötétpiros, fényes temno rdeča, bleskajoča				

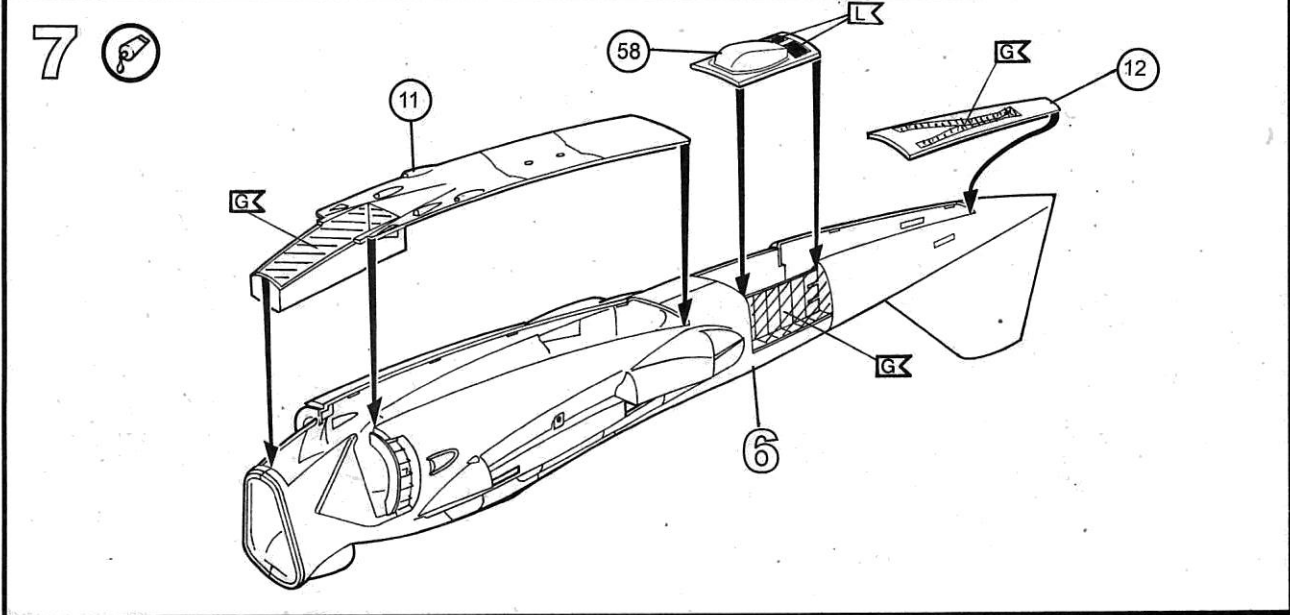
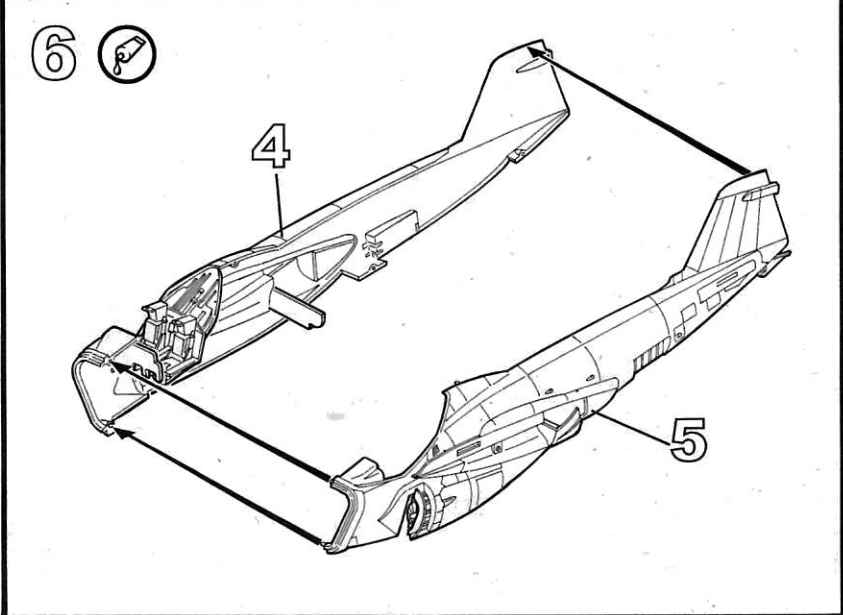
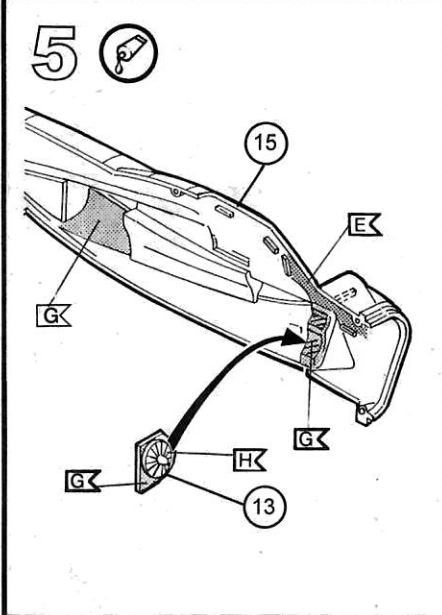
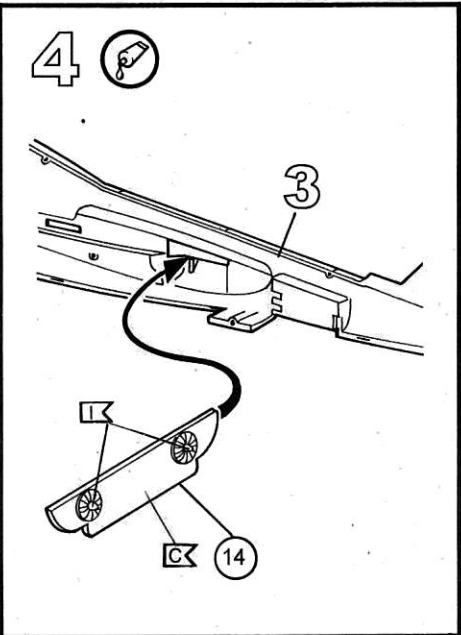
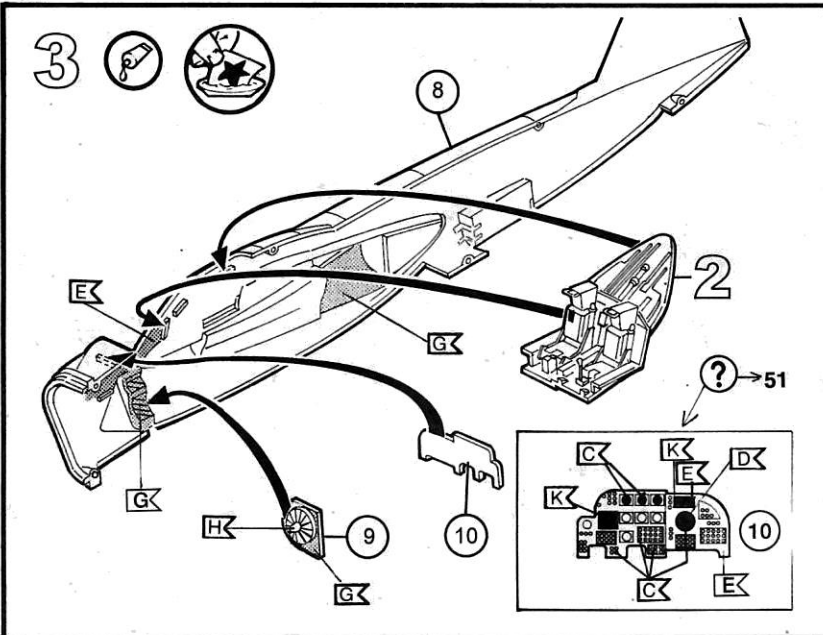


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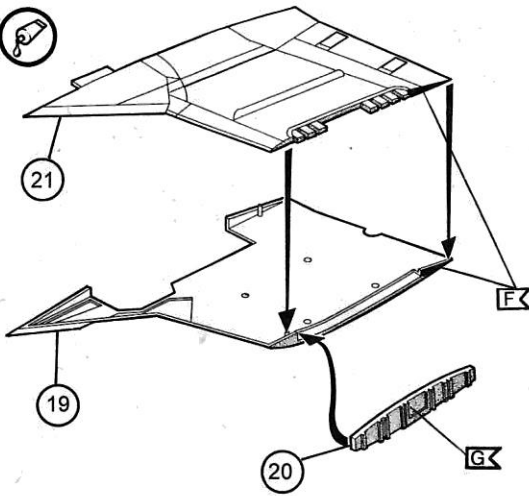


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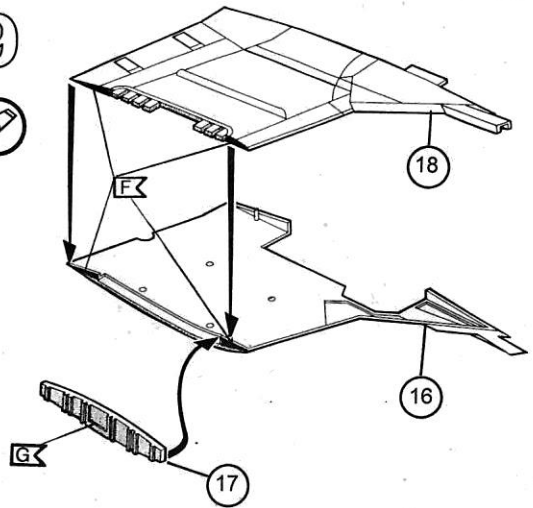




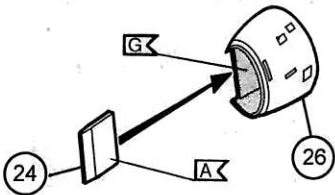
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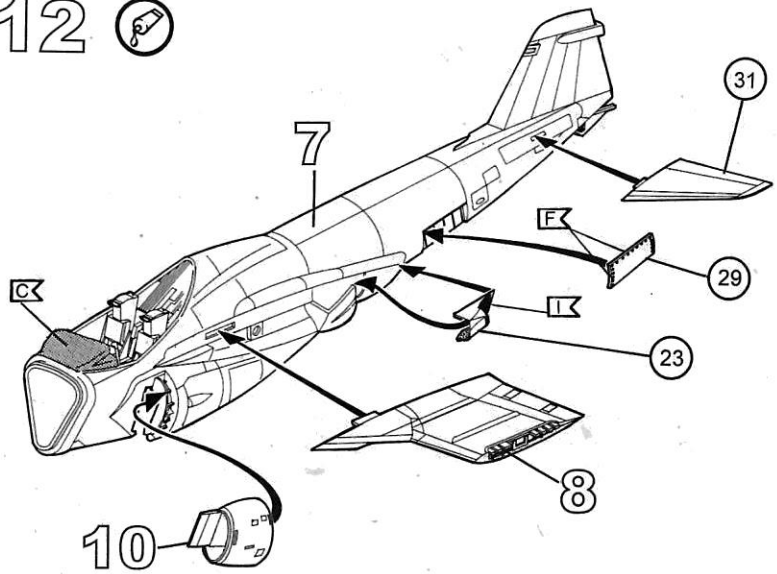
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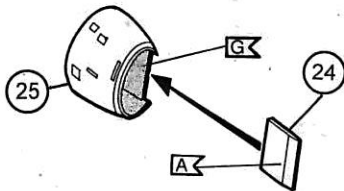
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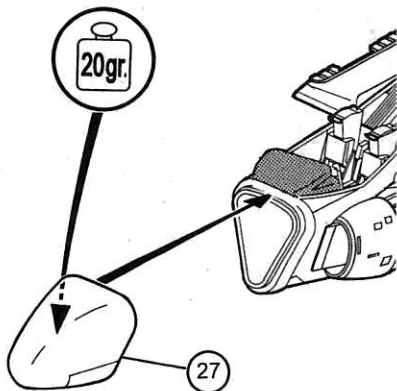
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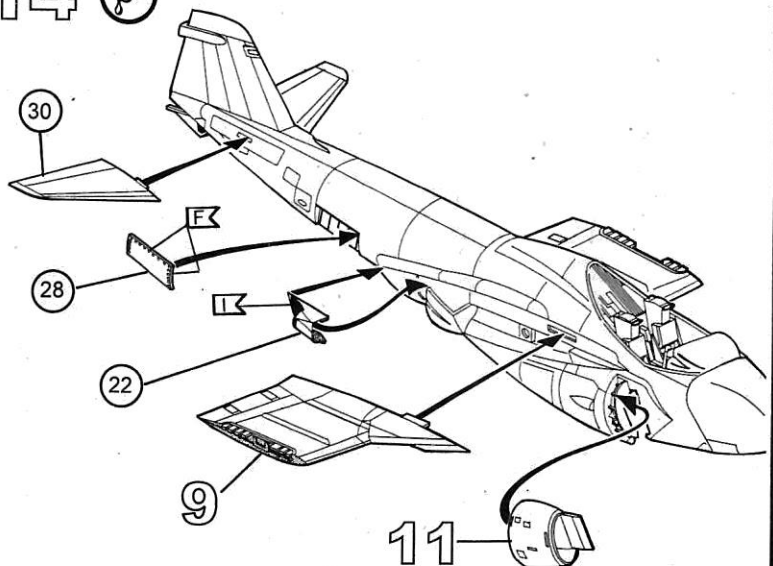
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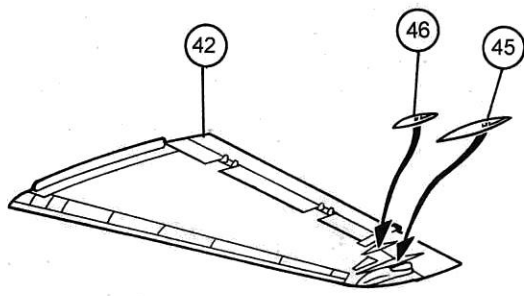
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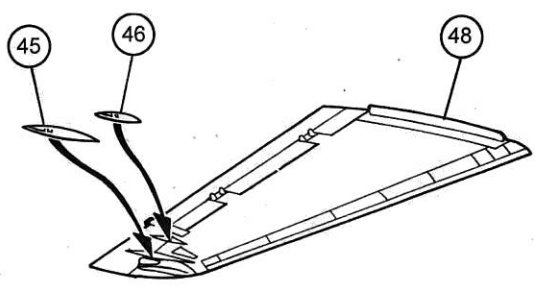
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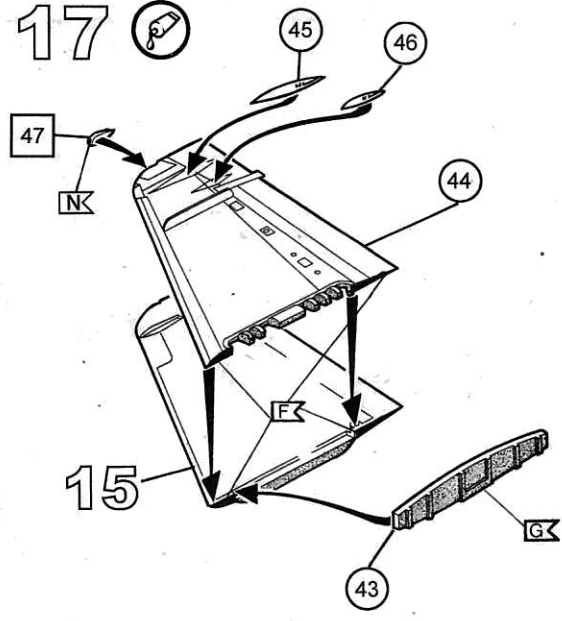
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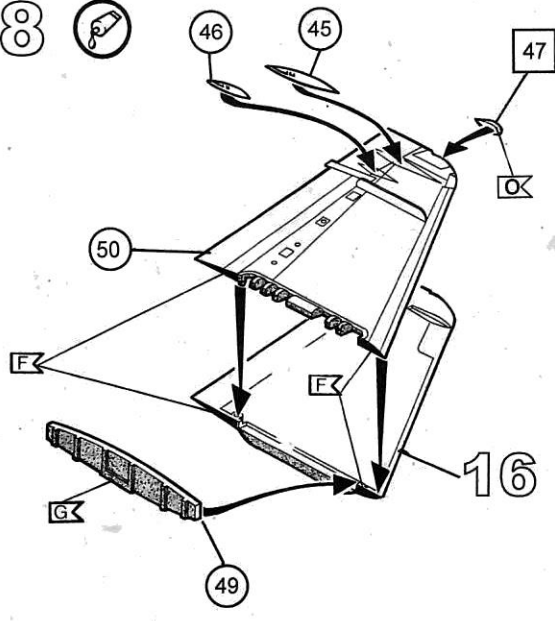
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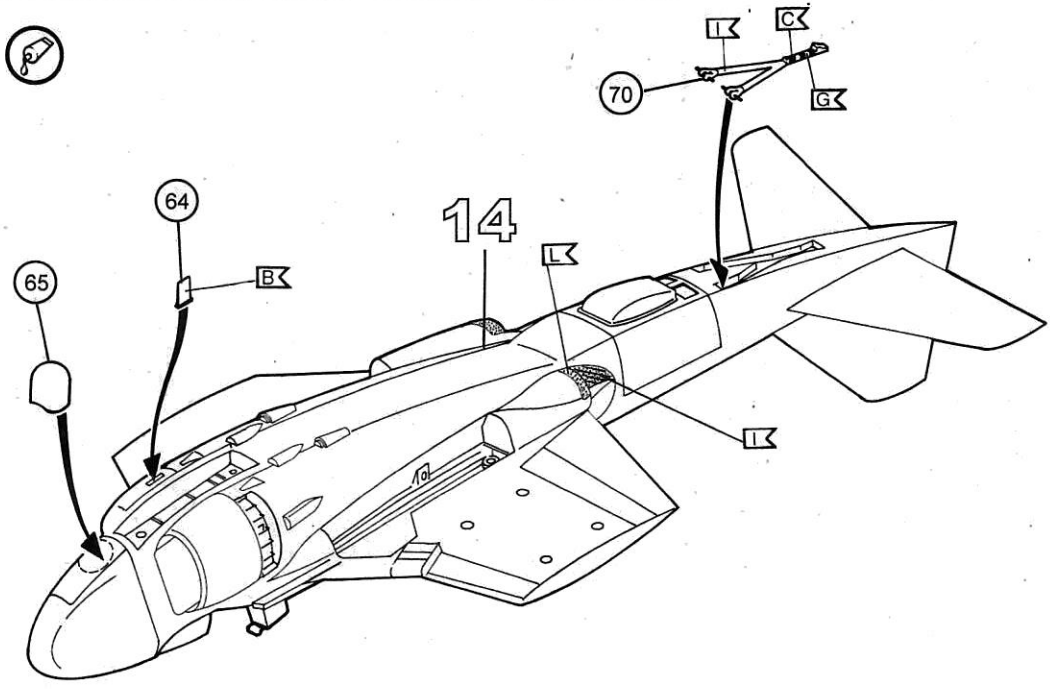
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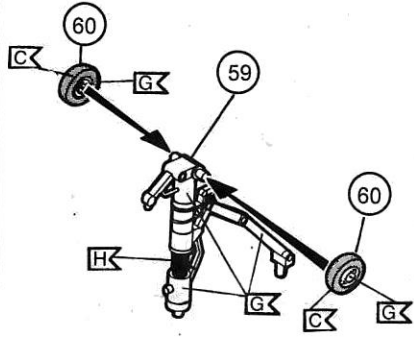
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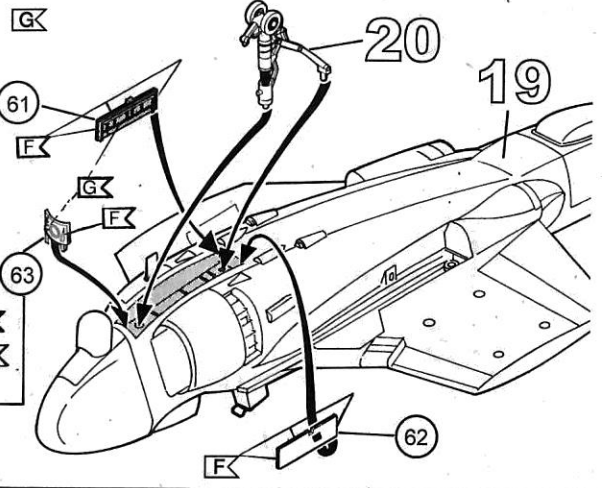
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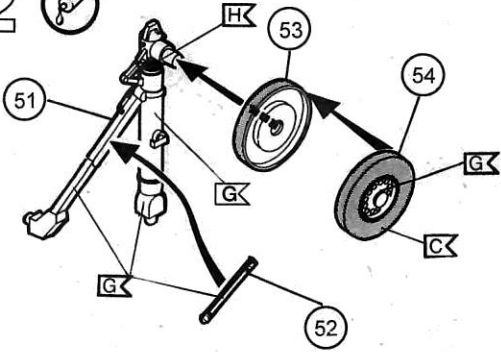
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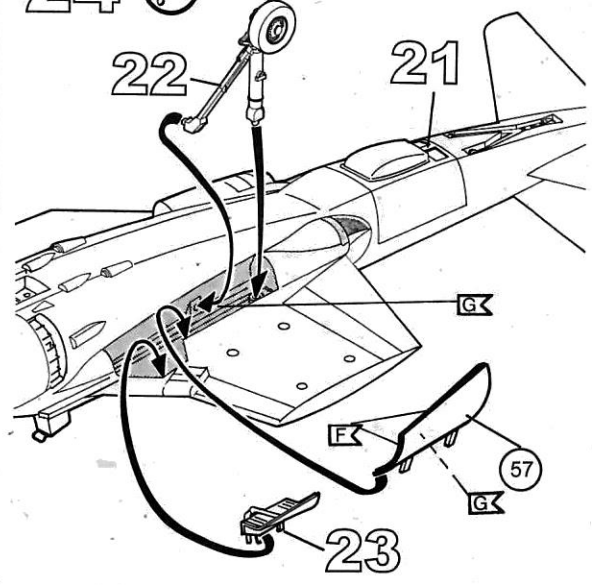
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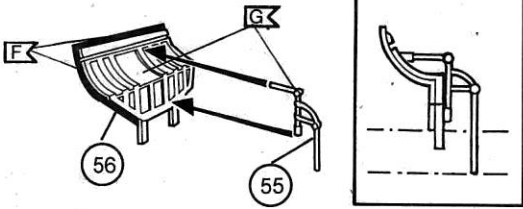
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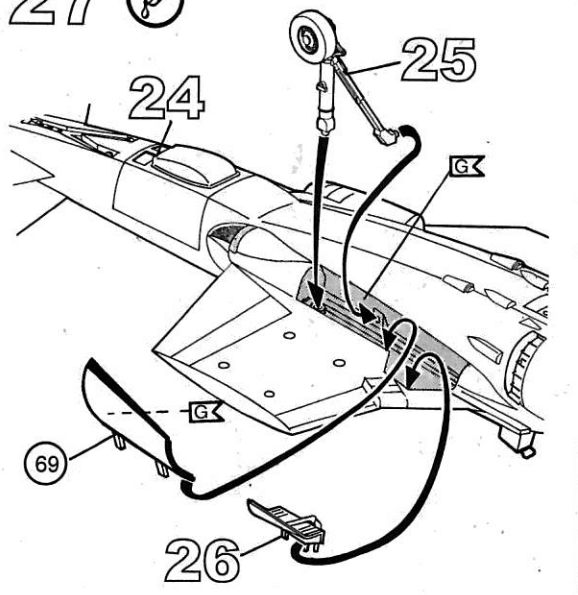
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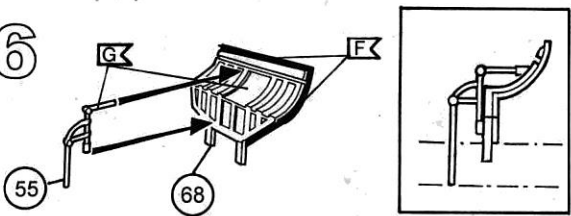
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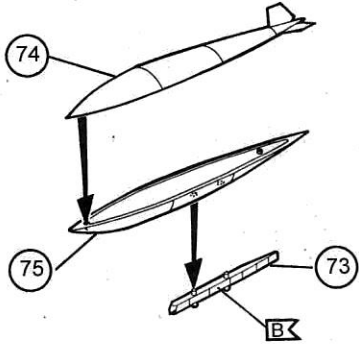
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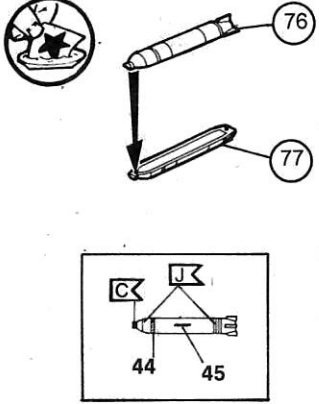
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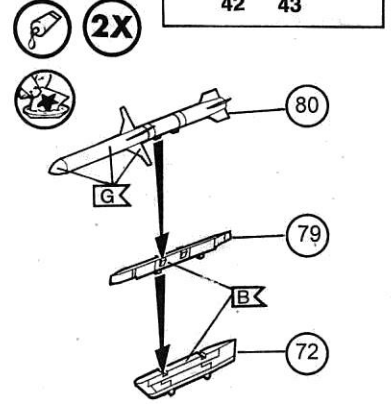
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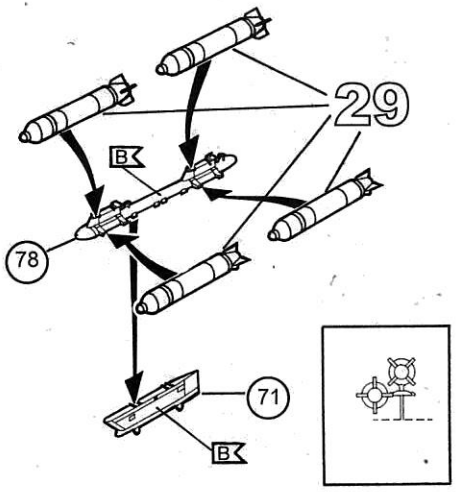
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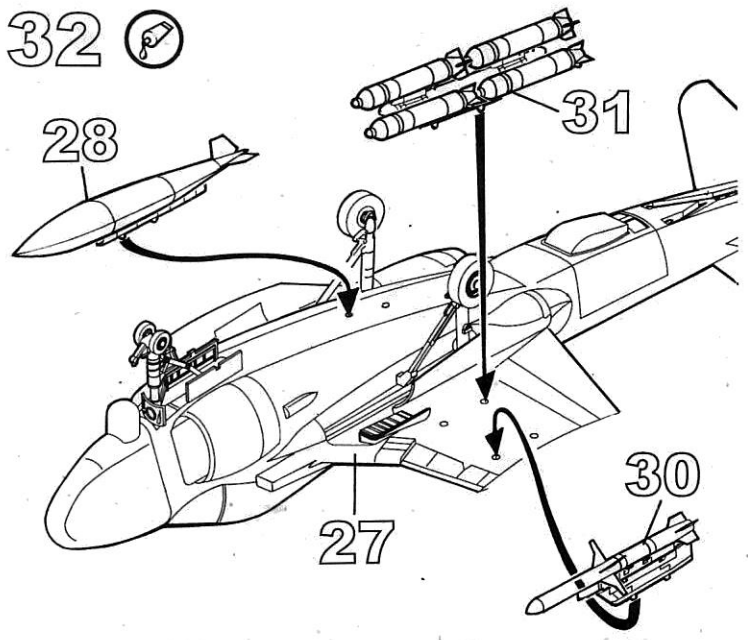
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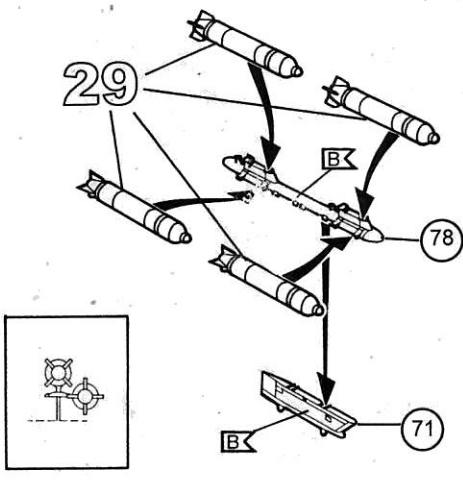
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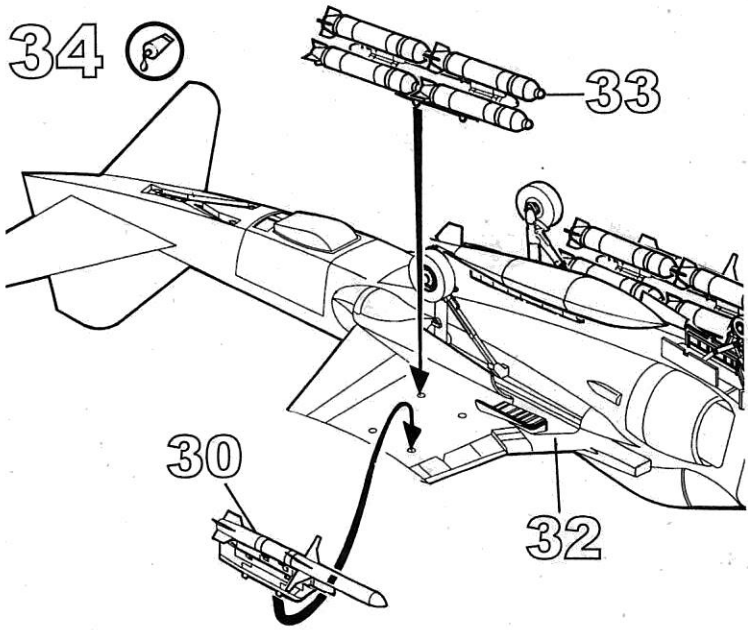
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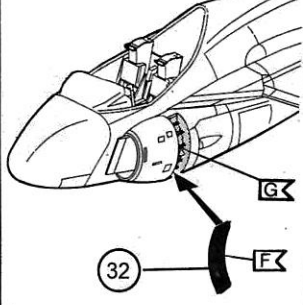
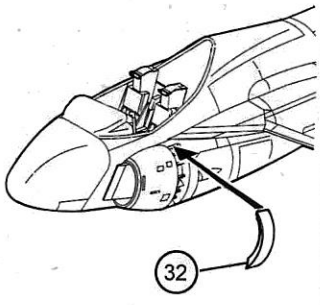
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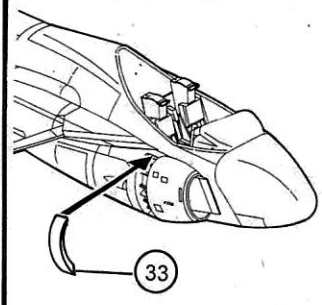
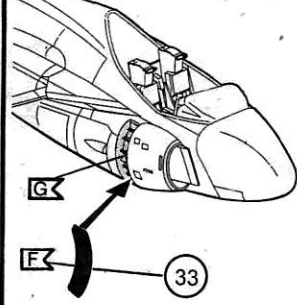
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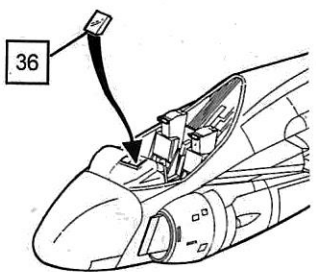
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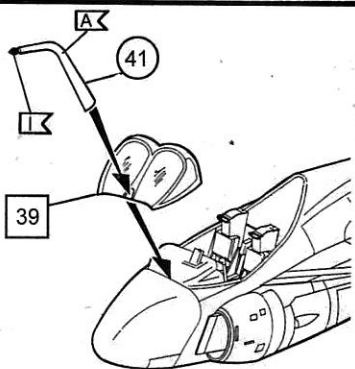
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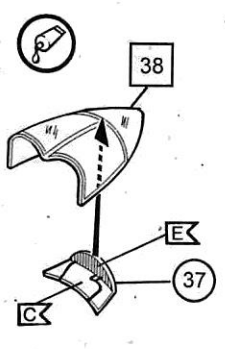
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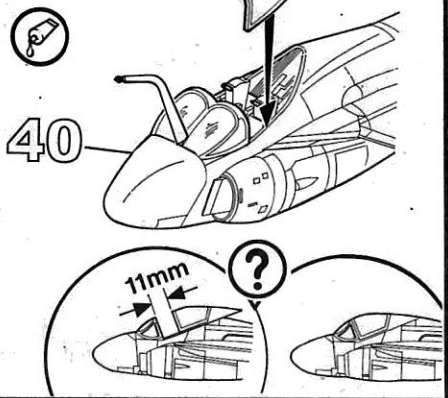
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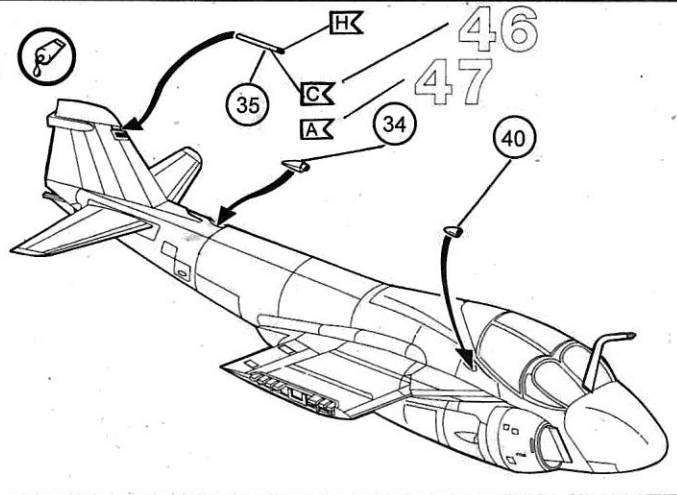
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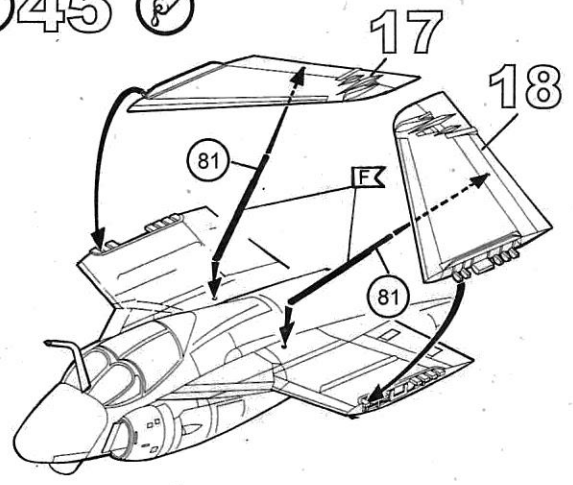
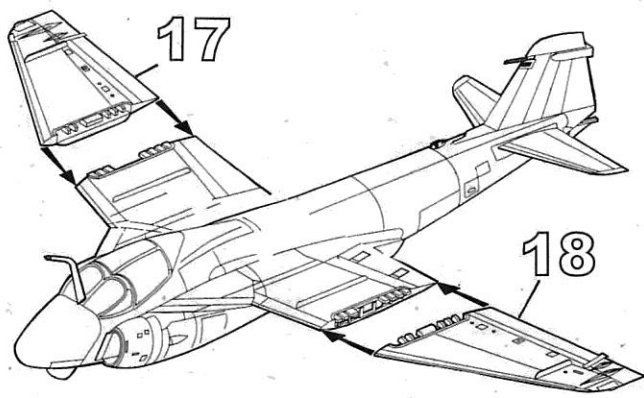
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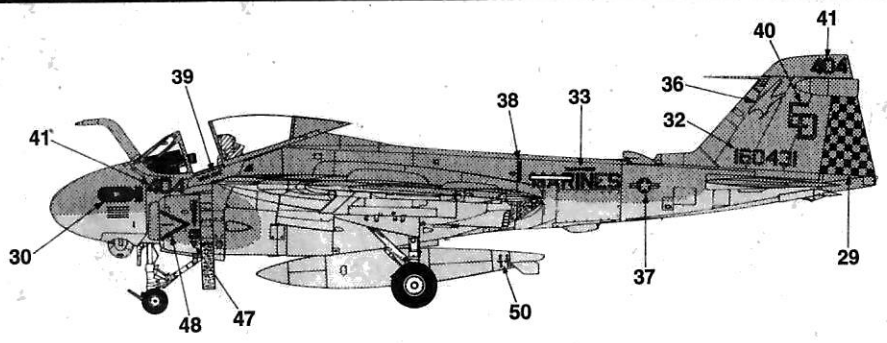
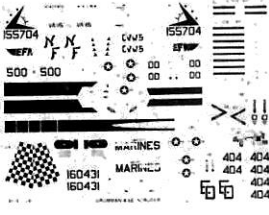
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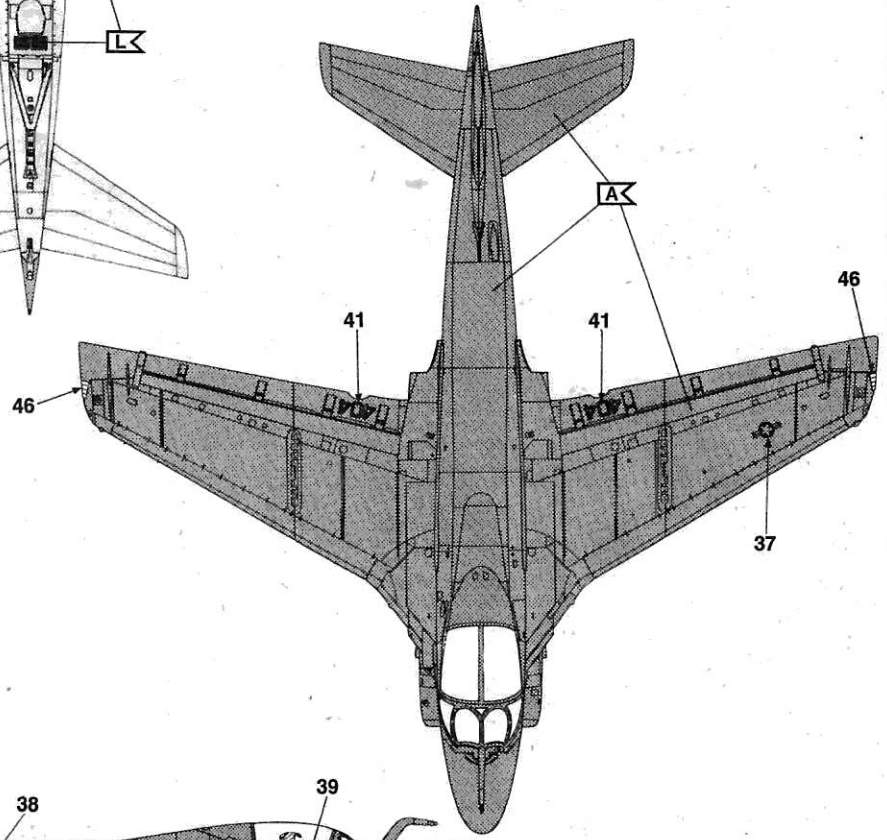
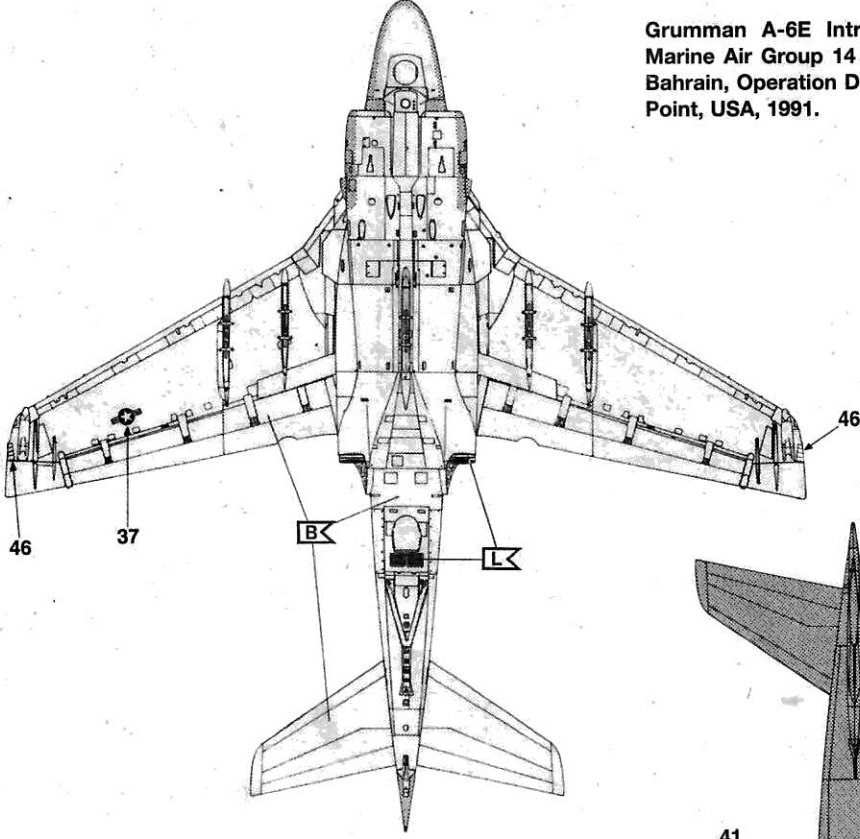
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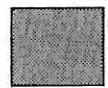
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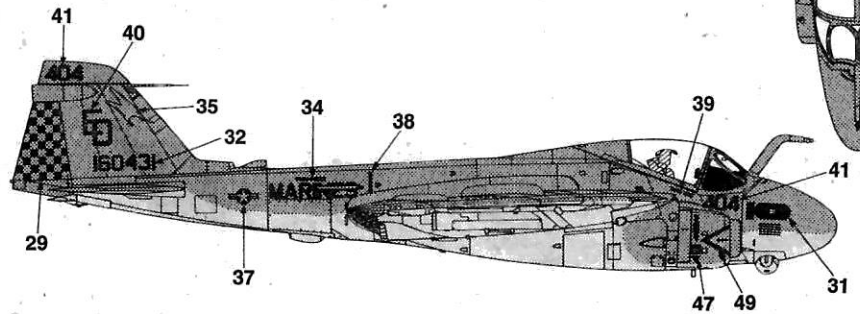
Grumman A-6E Intruder, VMA(AW)-533 'Hawks', Marine Air Group 14 (MAG-14), Sheik Isa Air Base, Bahrain, Operation Desert Storm and MCAS Cherry Point, USA, 1991.



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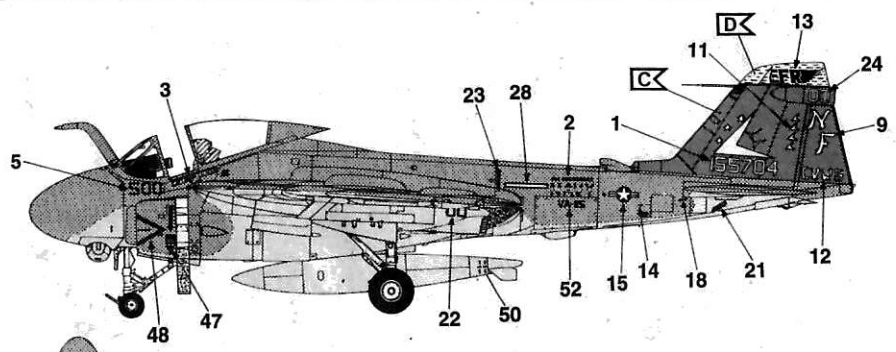
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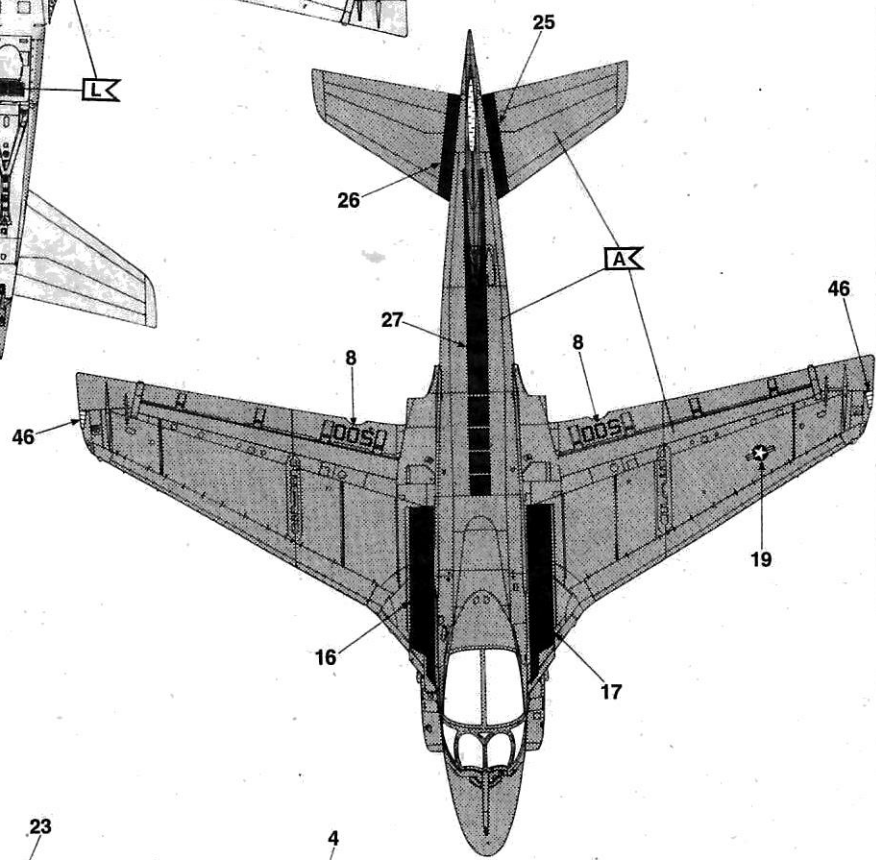
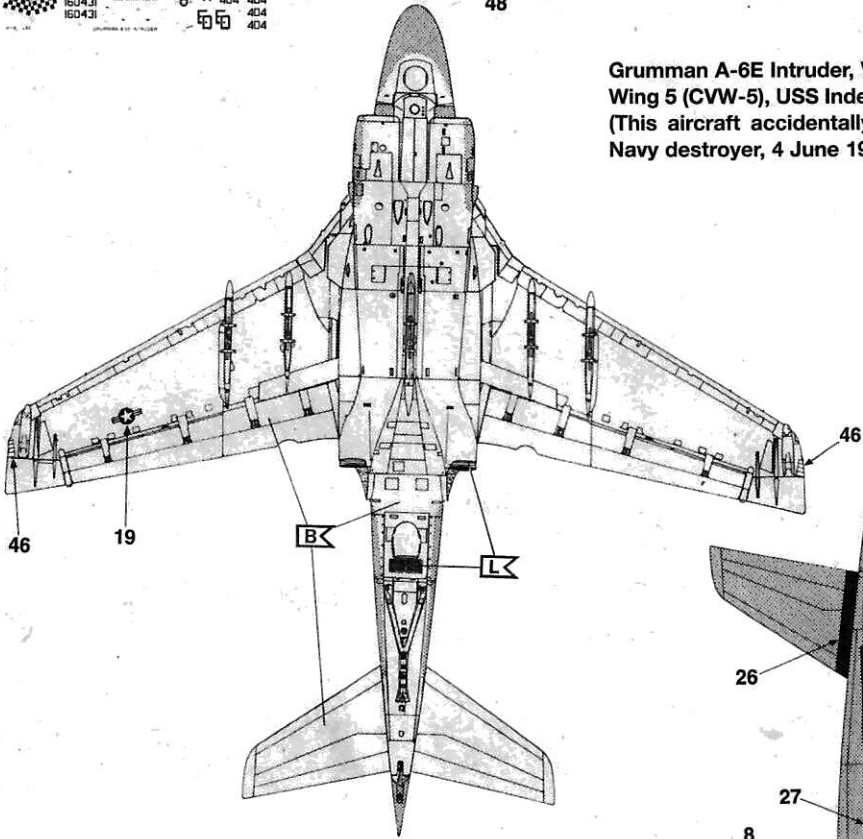
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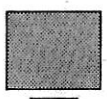
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Grumman A-6E Intruder, VA-115 'Eagles', Carrier Air Wing 5 (CVW-5), USS Independence, U.S. Navy 1996. (This aircraft accidentally shot down by Japanese Navy destroyer, 4 June 1996.)



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A

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B

