D7

JOINT SERVICES

RECOGNITION *Journal*



Vol. 22 MARCH 1967 No. 3



SUPER SKYMASTER

The Cessna Super Skymaster air taxi or executive type has suddenly assumed an operational importance following the placing of a contract for 176 by the U.S. Army. As the O-2, it will replace the O-1 Cessna Bird Dog on a one-for-one basis in the forward air reporting role and will be used for forward air controlling, observation and liaison. Some may be fitted with broadcasting equipment for psychological warfare. Service deliveries are expected this Spring. A lesson will follow.

MARCH 1967 Vol. 22 No. 3

JOINT SERVICES

RECOGNITION JOURNAL

The *Joint Services Recognition Journal* is a monthly publication produced by the Directorate of Flying Training (R.A.F.), Ministry of Defence, and prepared in collaboration with the Admiralty Board, the Army Department and the Ministry of Technology. Applications for copies can only be accepted from the Services or other official bodies, and must be submitted through the normal official publications supply channels—**not** to the Editorial Office or direct to the Ministry of Defence.

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COMMANDS OF THE R A F — FIGHTER COMMAND

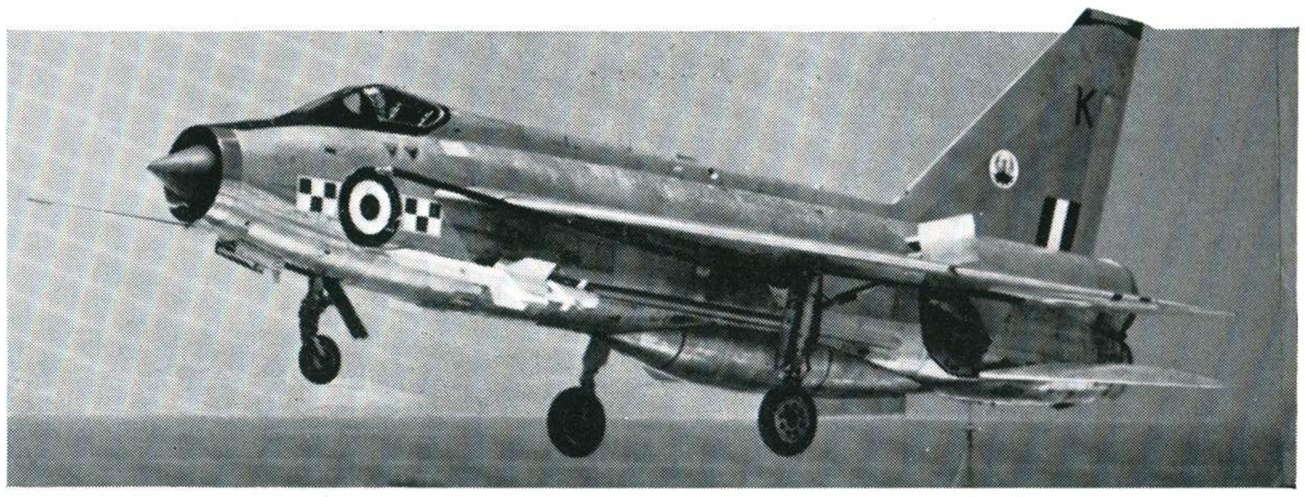
Fighter Command's role is to provide early warning of any aircraft or missile threat to the United Kingdom, to investigate unauthorised violations of United Kingdom air space and to provide an air defence force whenever, and wherever, the need may arise.

The Command forms part of the unified system of air defence under Supreme Allied Command Europe (SACEUR), with the United Kingdom forming one of four NATO air defence regions. Their Control and Reporting organisation is closely linked with that of the other three regions but the size, composition, role and deployment remains the responsibility of the British Government. The Air Officer Commanding-in-Chief, Fighter Command, has the additional NATO title of Commander, United Kingdom Air Defence Region (COMUKADR).

The Ballistic Missile Early Warning System (BMEWS) Station at Fylingdales in Yorkshire is under the operational control of the Command which also administers the Royal Observer Corps whose members are responsible for reporting nuclear bomb bursts and measuring the radioactive fallout from their centres and posts throughout the country. The Fylingdales Station has a joint Anglo-American role to fulfil in conjunction with the United States BMEWS sites at Thule in Greenland and Clear in Alaska.

To enable overseas theatres to be reinforced rapidly, aircraft of the Command are equipped for flight refuelling and any such operation would be carried out in conjunction with Transport Command and the tanker aircraft of Bomber Command. A mobile Air Control Centre, based in the U.K., is available for deployment as operations decree and Bloodhound Mk. 2 surface-to-air missiles and associated radar can also be air transported from their U.K. bases to overseas areas.

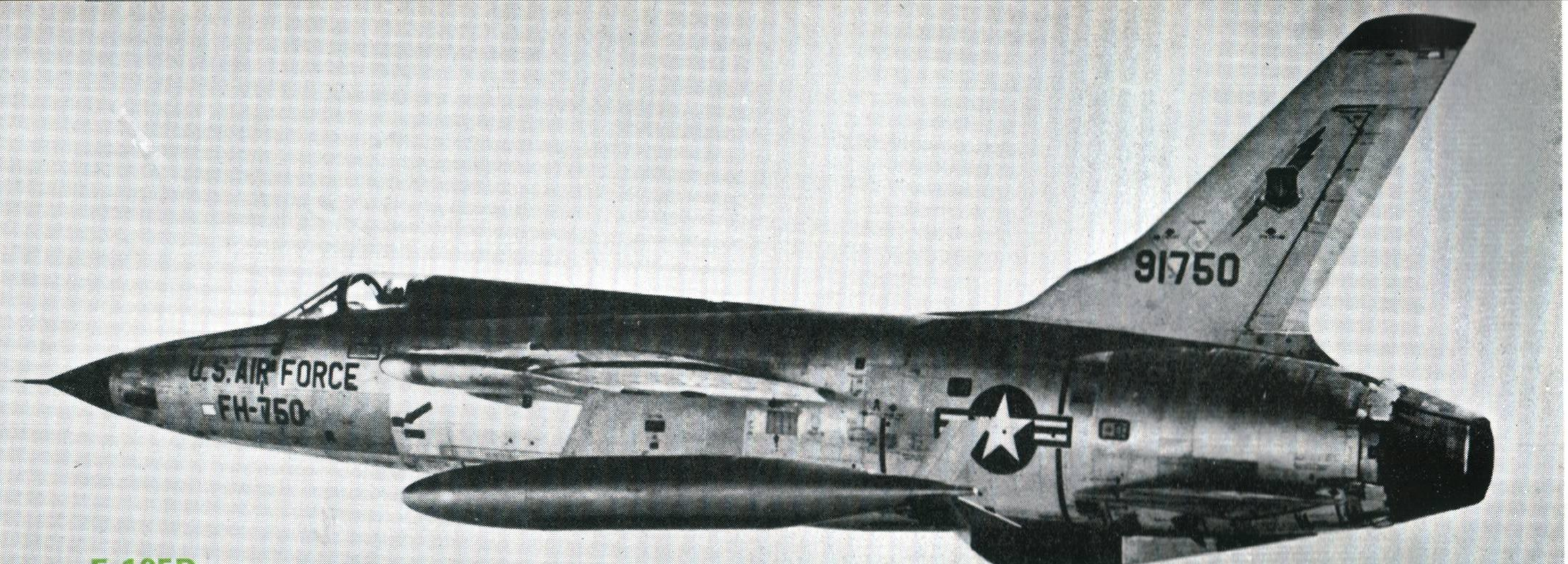
The front-line fighter squadrons are equipped with the twin-jet Mach 2 Lightning F.3 and F.6 single-seat, all-weather fighters. Both types can carry Firestreak or Red Top air-to-air missiles which permit attacks at long range.



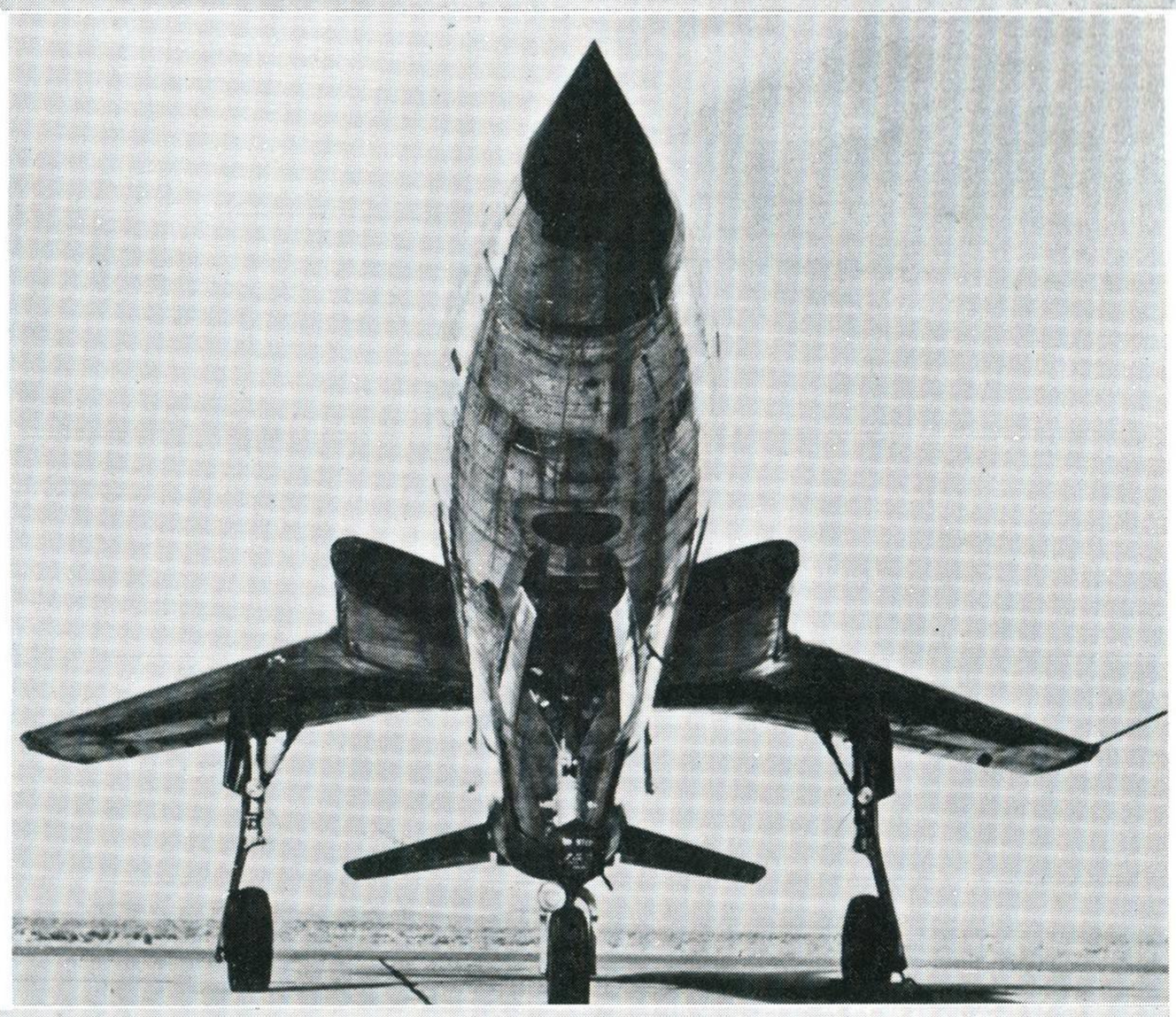
LIGHTNING F3

The Command is responsible for its own operational training. After advanced training on Gnats with Flying Training Command a grounding in fighter tactics is given on Hunters at R.A.F. Chivenor in North Devon. This is followed by training on the two-seat Lightning T.4 and T.5 trainers at R.A.F. Coltishall. Hunter pilots destined for service in overseas Commands, receive their training at Chivenor.

It is vital for the aircrew of the Command to be highly trained in aircraft identification, particularly in their role of investigating violations of airspace, and for all to recognise the aircraft of the Command, of which the front-line Lightnings, it should be noted, are available for deployment overseas.



F-105D



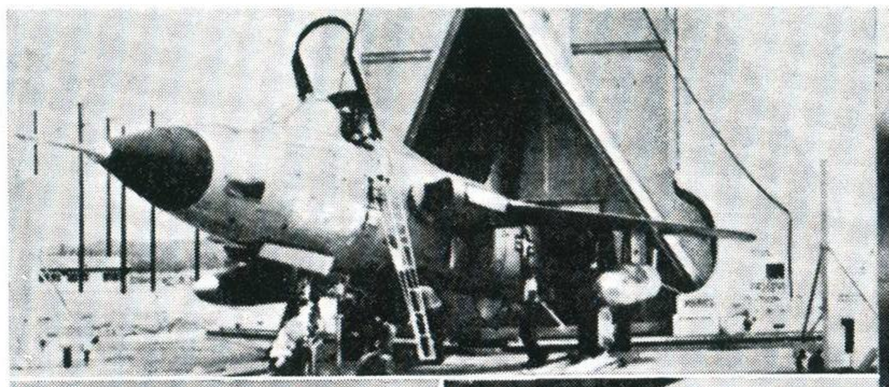
THUNDERCHIEF

Classed as a fighter by its F-105 U.S. Service designation, the Thunderchief is a fighter-bomber able to deliver nuclear weapons and up to seven tons of conventional bombs; in the interceptor role it has a speed in excess of Mach 2. Thus, Thunderchiefs may be seen with a wide variety of underwing stores including auxiliary fuel tanks to give it a range of over 2,000 miles, Sidewinder air-to-air or Bullpup air-to-surface missiles.

There are three versions of the Thunderchief in service; the F-105B & F-105D single-seaters of the same configuration and the F-105 two-seater dual purpose trainer/tactical fighter with extended canopy, increase in fuselage length and slightly modified fin shape. To know the Thunderchief in both its forms, use the instructions on page 83 and report these targets as Thunderchiefs—or otherwise if jokers.

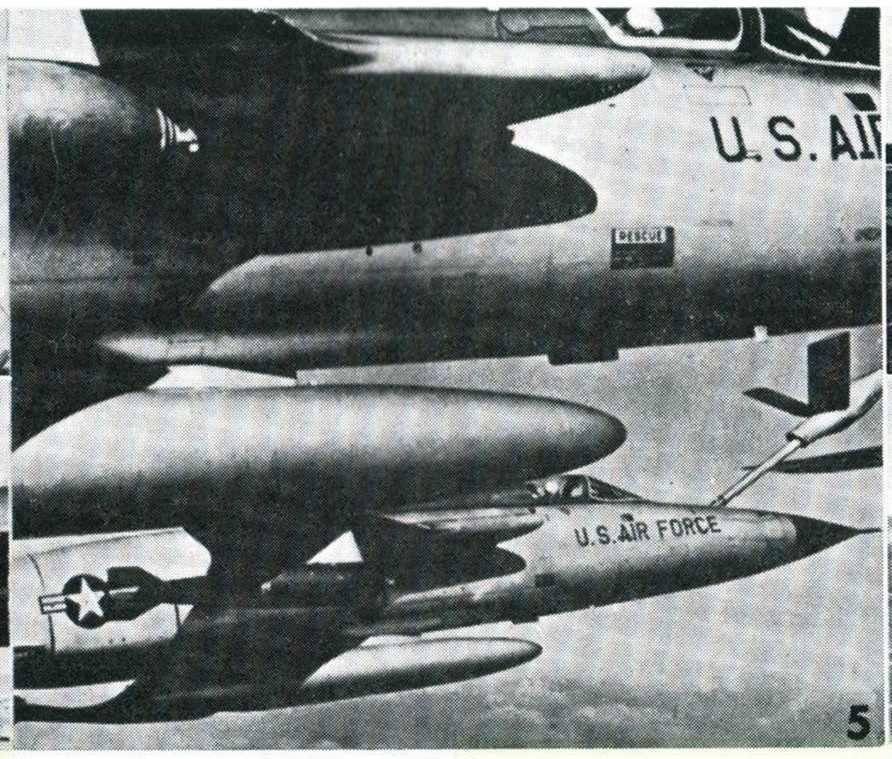
F-105F

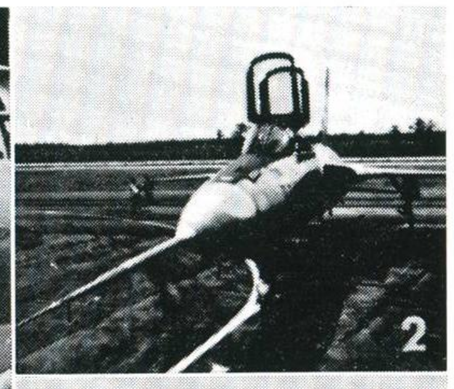






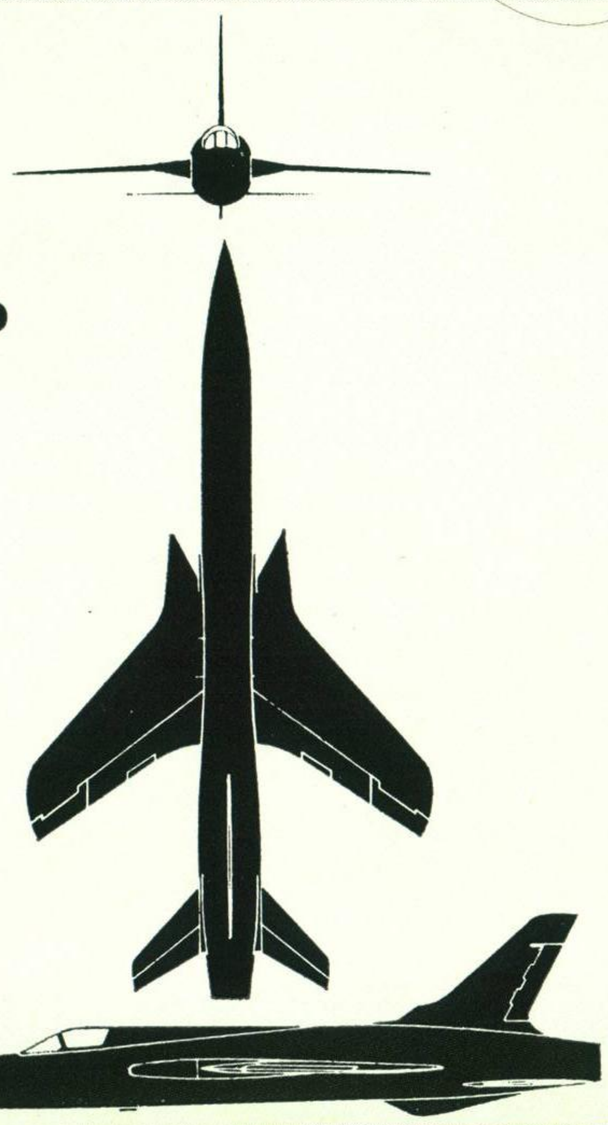




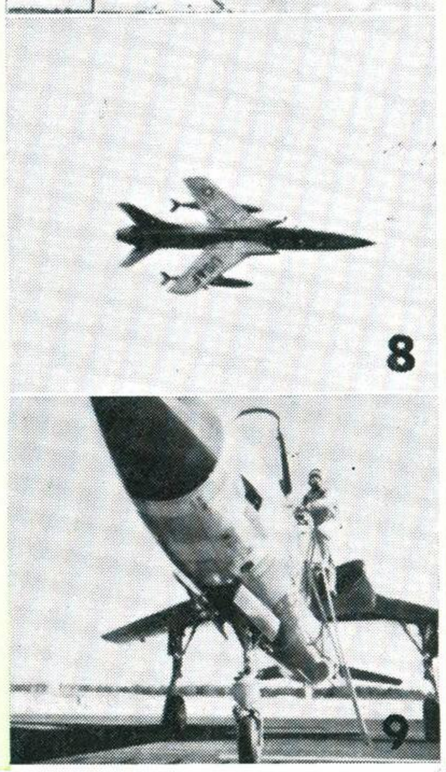




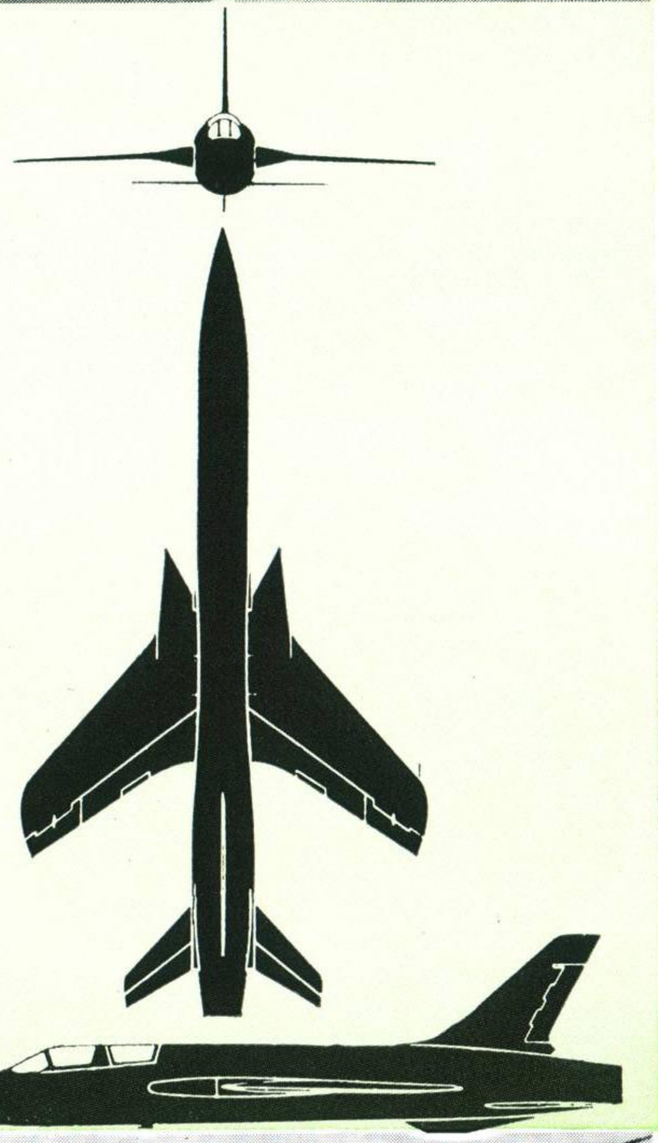
F-105D

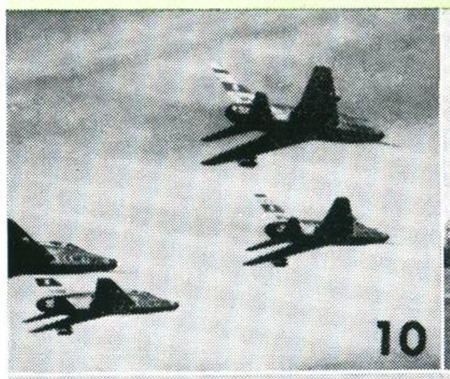






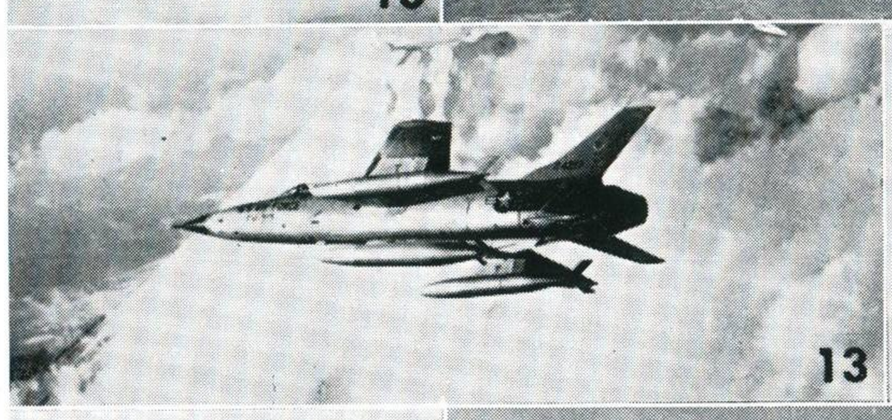
F-105F



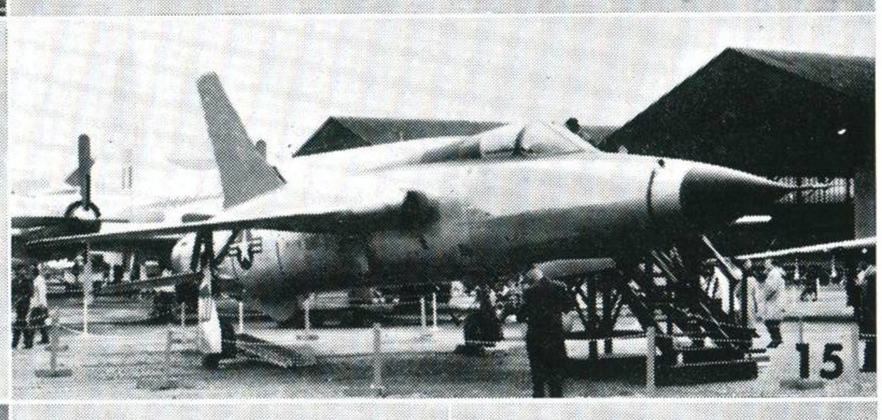




















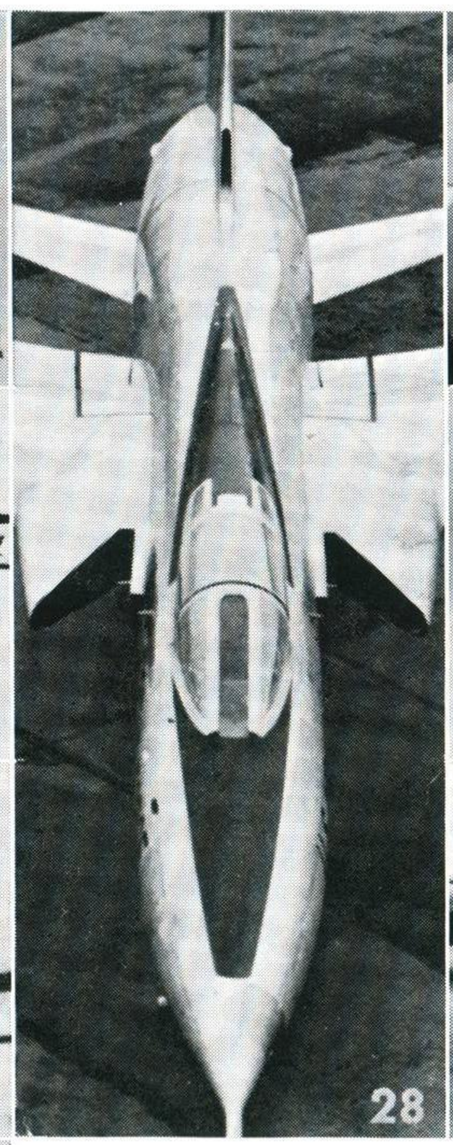
Continued overleaf



THUNDERCHIEF *continued*

























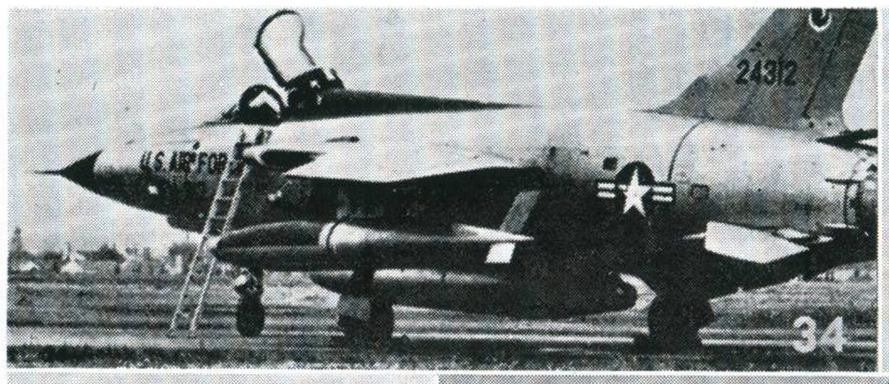


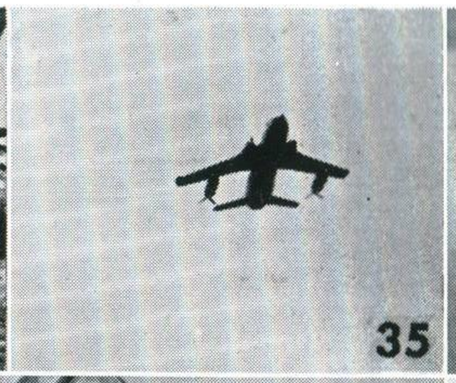


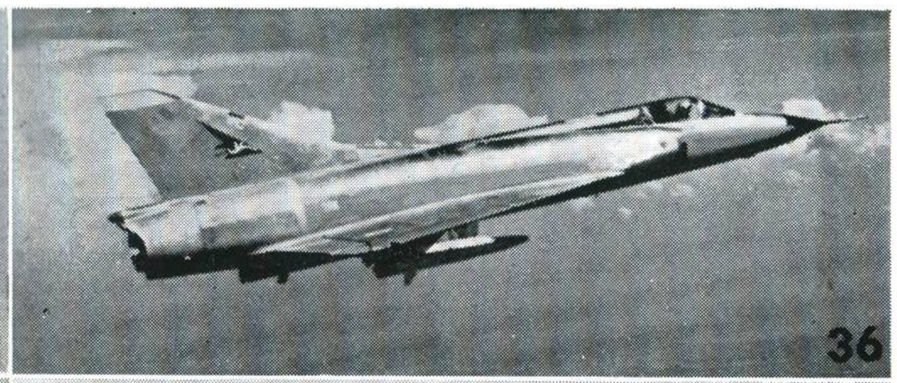
THUNDERCHIEF

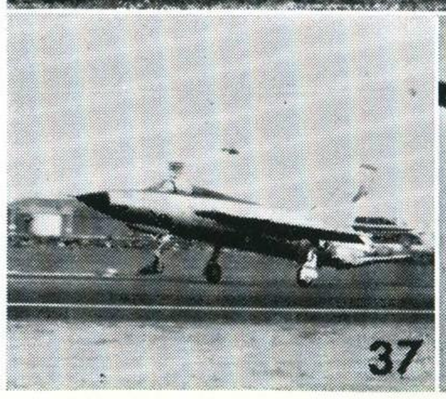
Although the F-105 Thunderchief is now out of production there are current contracts to increase its operational capacity, so that this type, which has been flying for over ten years, is scheduled for service for some years yet.

Solutions on the cover





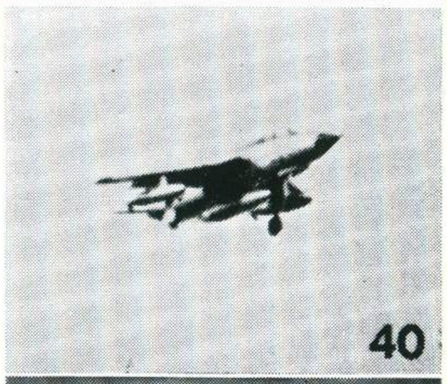








F-105D

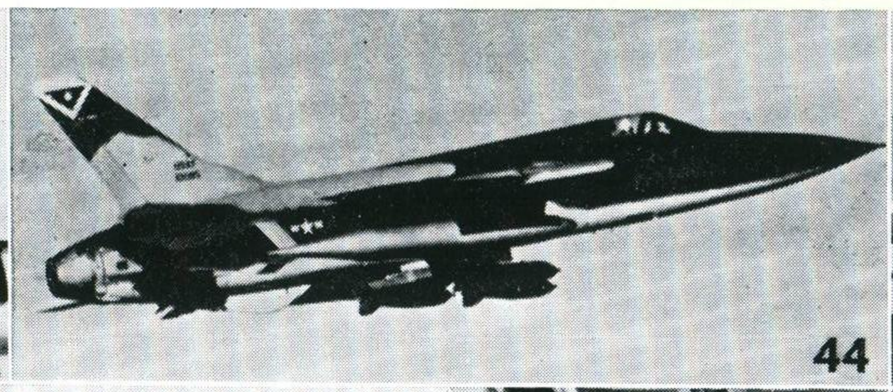




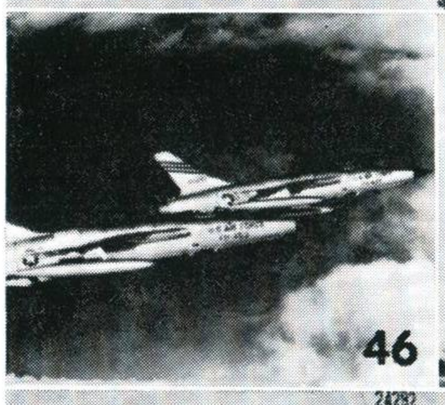


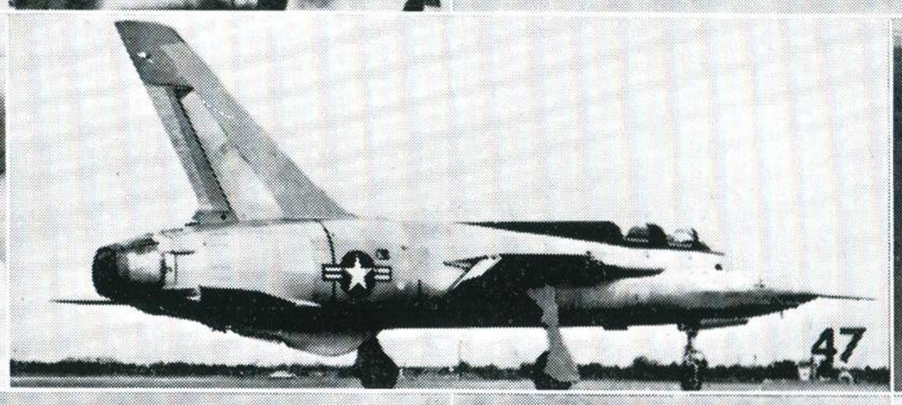
F-105F

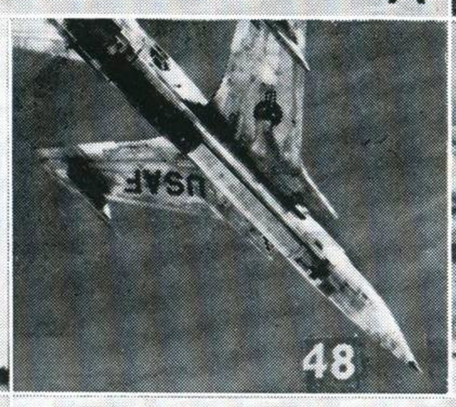










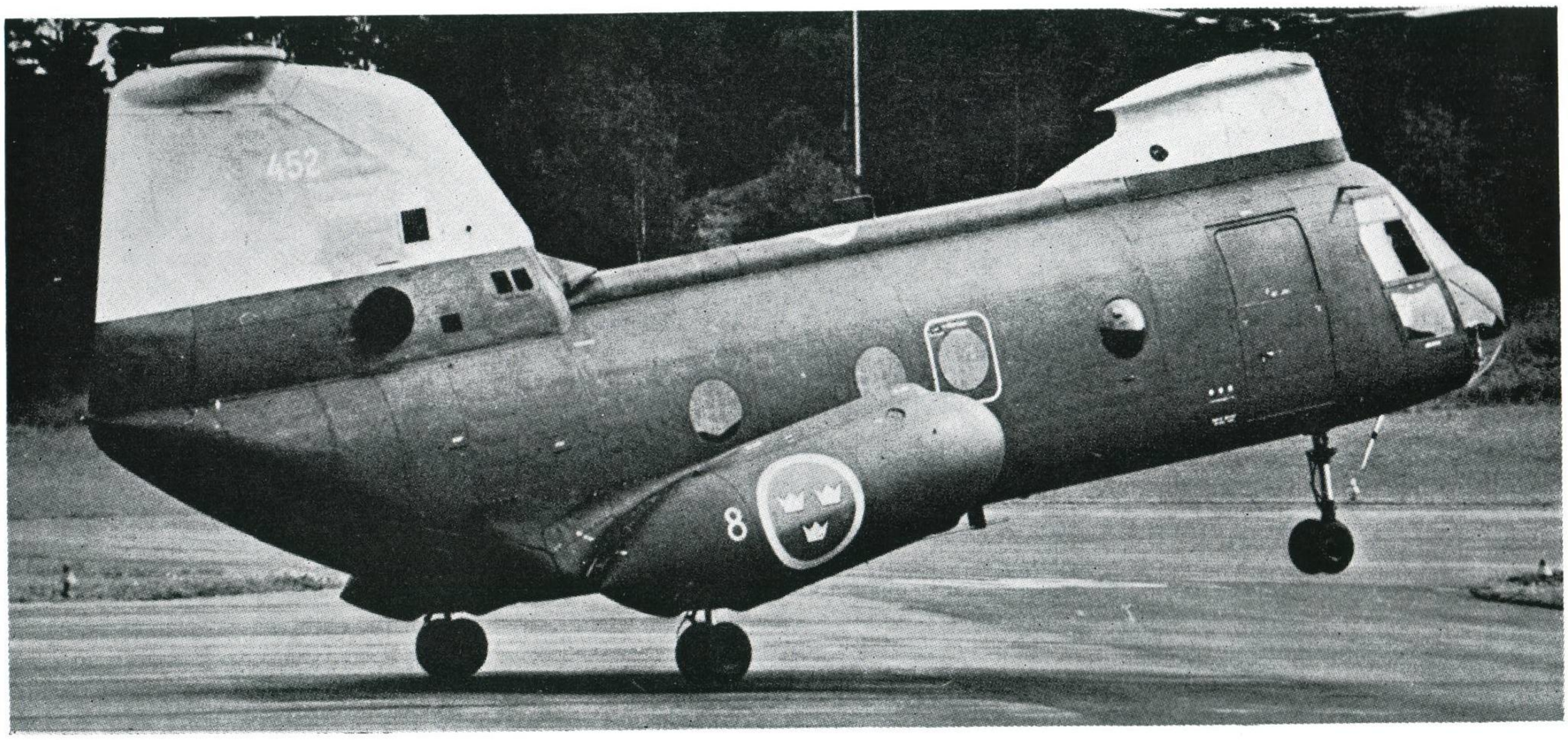














VERTOL 107

The Boeing-Vertol Model 107 is a twin-turbine, military and commercial helicopter. Since it is known as the H-46 Sea Knight in U.S. service, CH-113 Labrador in the R.C.A.F., Voyageur in the Canadian Army and HKP-4 in Swedish service, the firm's designation Vertol 107 is used as a universal reporting name for all military and civil variants.

A development of the Vertol 107, the Chinook (Vertol 114) was the subject of a lesson in the previous edition of the *Journal*: To identify the Vertol 107 use the instructions on page 83: do not attempt to train by comparing with the Chinook.

The Vertol 107 has been extensively used in Vietnam. It is used in a variety of roles and as an ambulance can carry 15 patients in litters and in a rescue role can carry 20 persons.

Length of fuselage 45 feet ***Solutions on the cover***



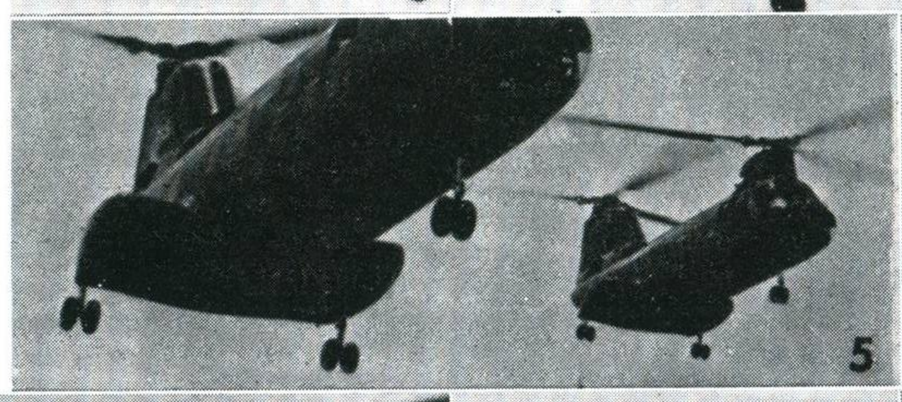





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JG-1701
陸上自衛隊
51701
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107
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NIHON-KEIKI AIRCRAFT
JA9500
長良
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AFT
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FILTER FEA

WESSEX

Since the last Wessex lesson appeared, in the April 1964 edition, the Mk. 60 development of the H.C.2 has appeared with an enlarged cabin to accommodate 10 passengers. This version features a nose filter which is also being fitted to earlier Wessex models in overseas areas.





TURE

WHIRLWIND

Since the last Whirlwind lesson appeared, in the August 1964 edition, a filter has been introduced and fitted to the nose of Whirlwinds in a manner similar to the Wessex shown opposite. The filters are shown here fitted to the Whirlwind H.A.R. 10, for use overseas.





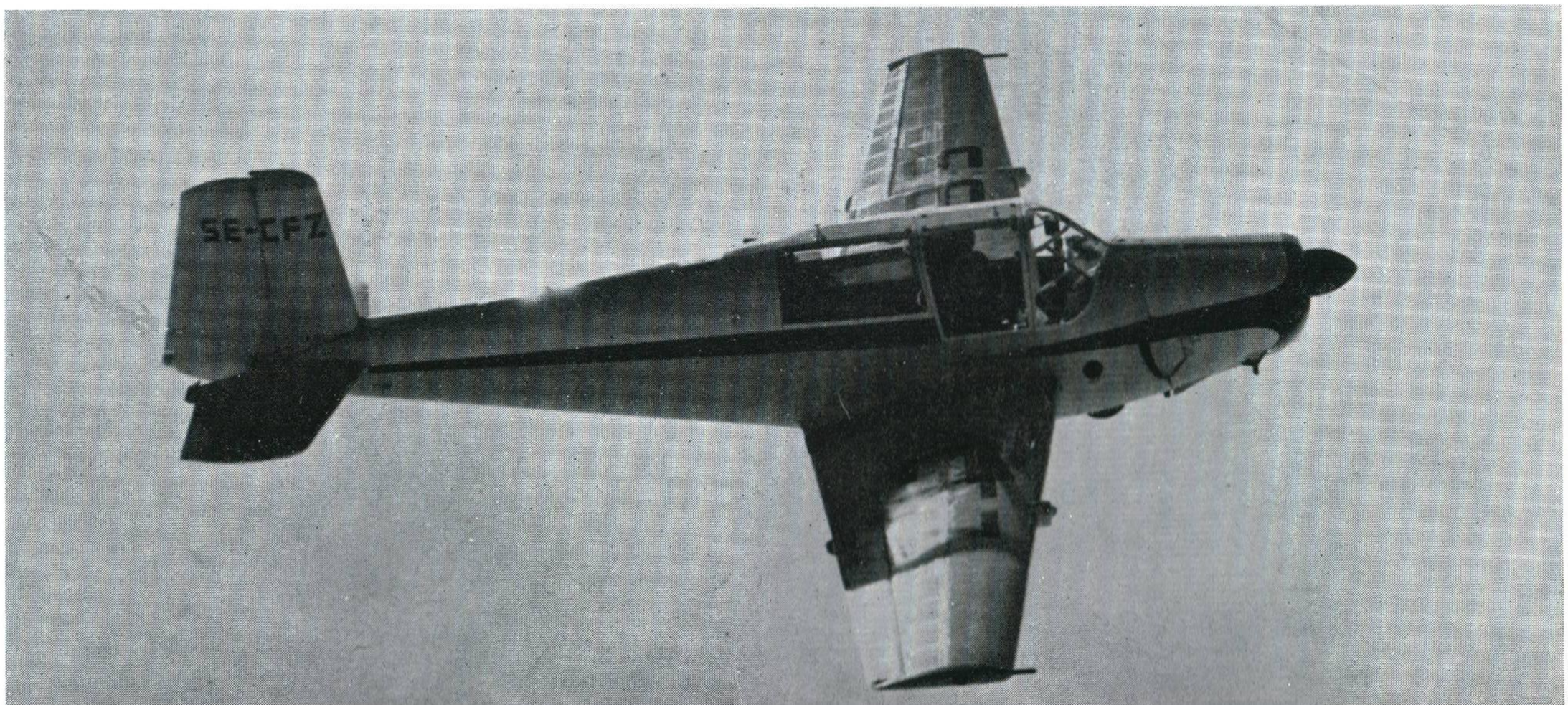


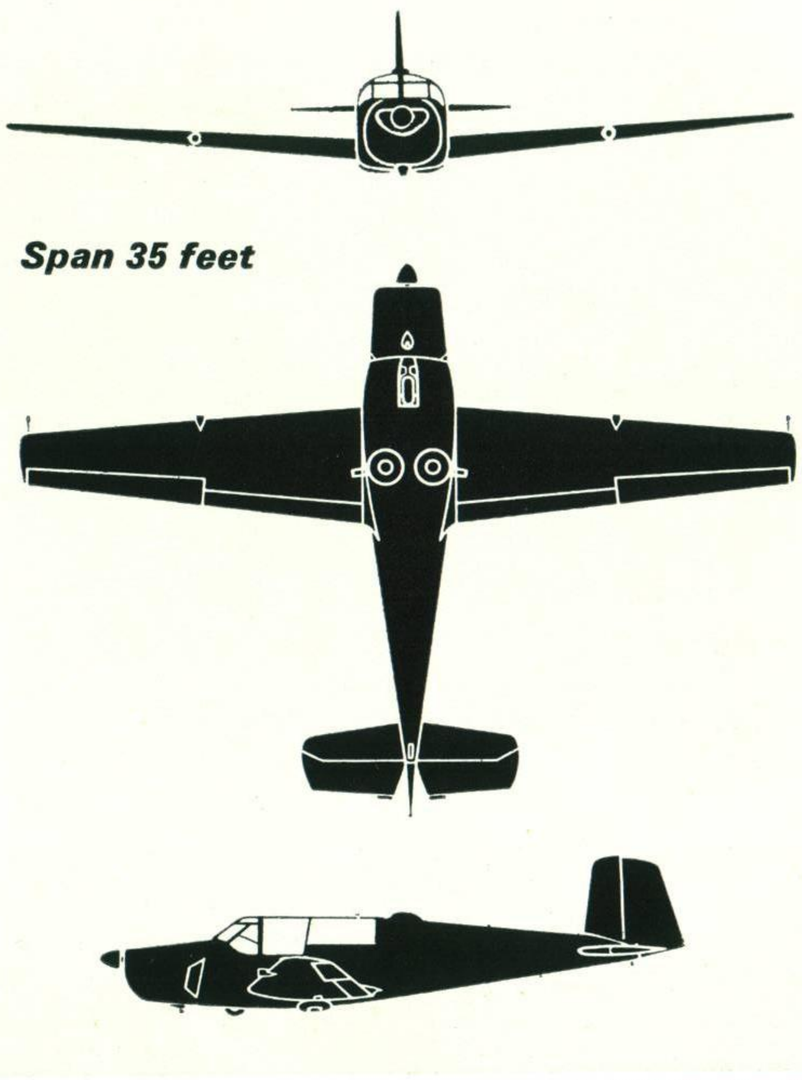


SAFIR

Over 300 Safirs have been built by SAAB in Sweden over the last twenty years for customers in some twenty different countries, including the United Kingdom. It is used as a light liaison or training aircraft by several air forces, viz. Austrian, Ethiopian, Finnish, Norwegian, Swedish and Tunisian, and for flying and navigational training by several airlines including Air France, Lufthansa of Western Germany and Garuda of Indonesia.

Known as the SAAB 91A to 91D according to model by the makers and Sk 50 and Tp 91 according to role by the Swedish Air Force, the Safir versions show little external variation except for a small astrodome, aft of the cabin, on some models. To know the SAAB 91 Safir, whenever you should see one, carry out the instructions on page 83 and report these targets as Safirs, or otherwise if "jokers". Solutions on the cover.





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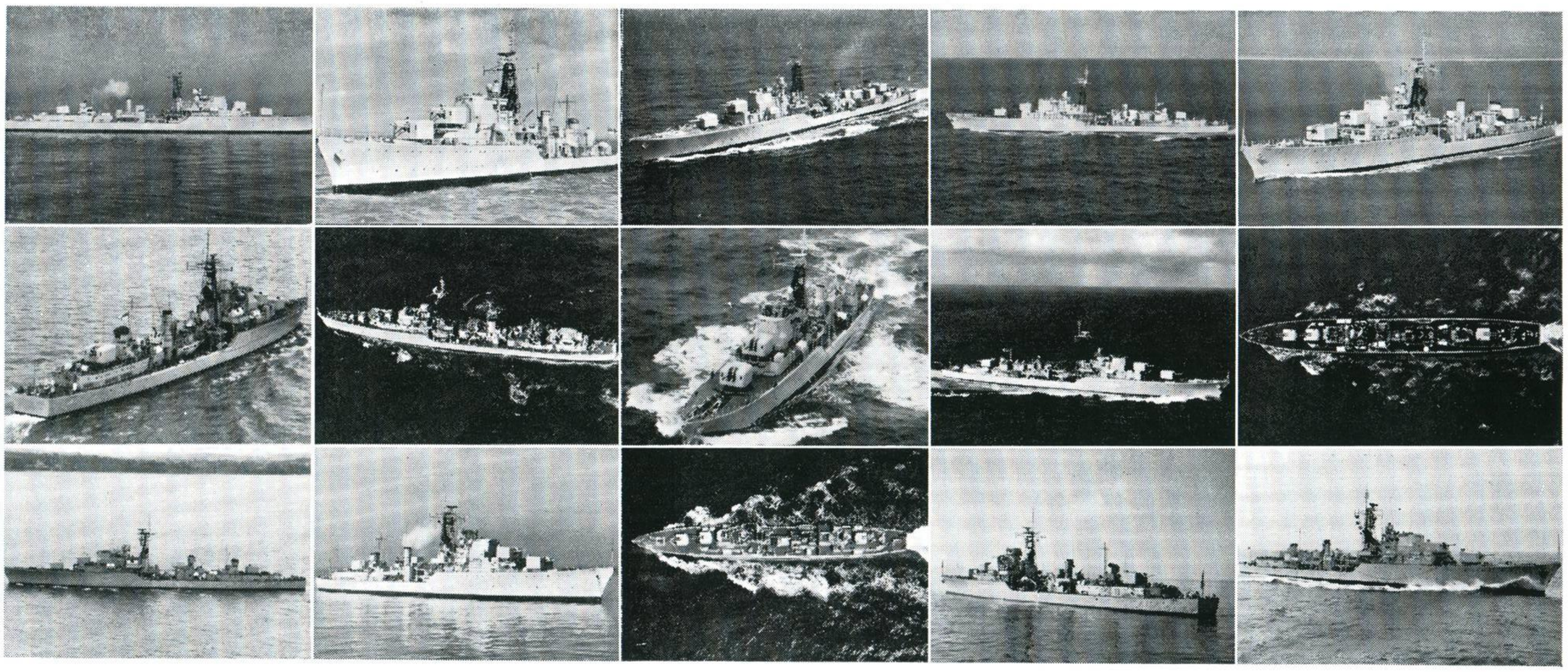
24

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TEST PAPERS

Fashion a grid to the pattern of a lesson and mark with a cross the position of any pictures that do not conform to the subject heading.

DARING CLASS DESTROYER?



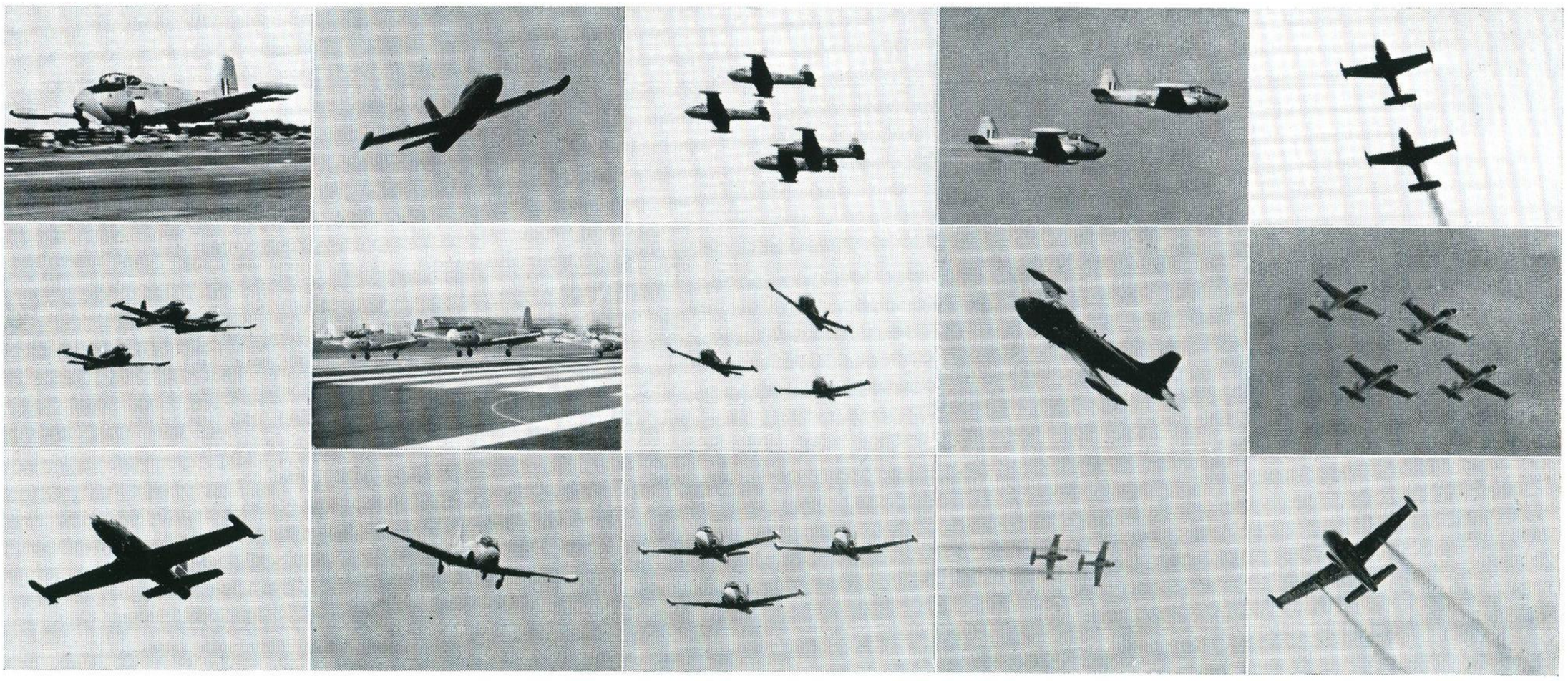
COMMANDO CARRIER?

SOVIET G CLASS SUBMARINE?

GNAT?



JET PROVOST?

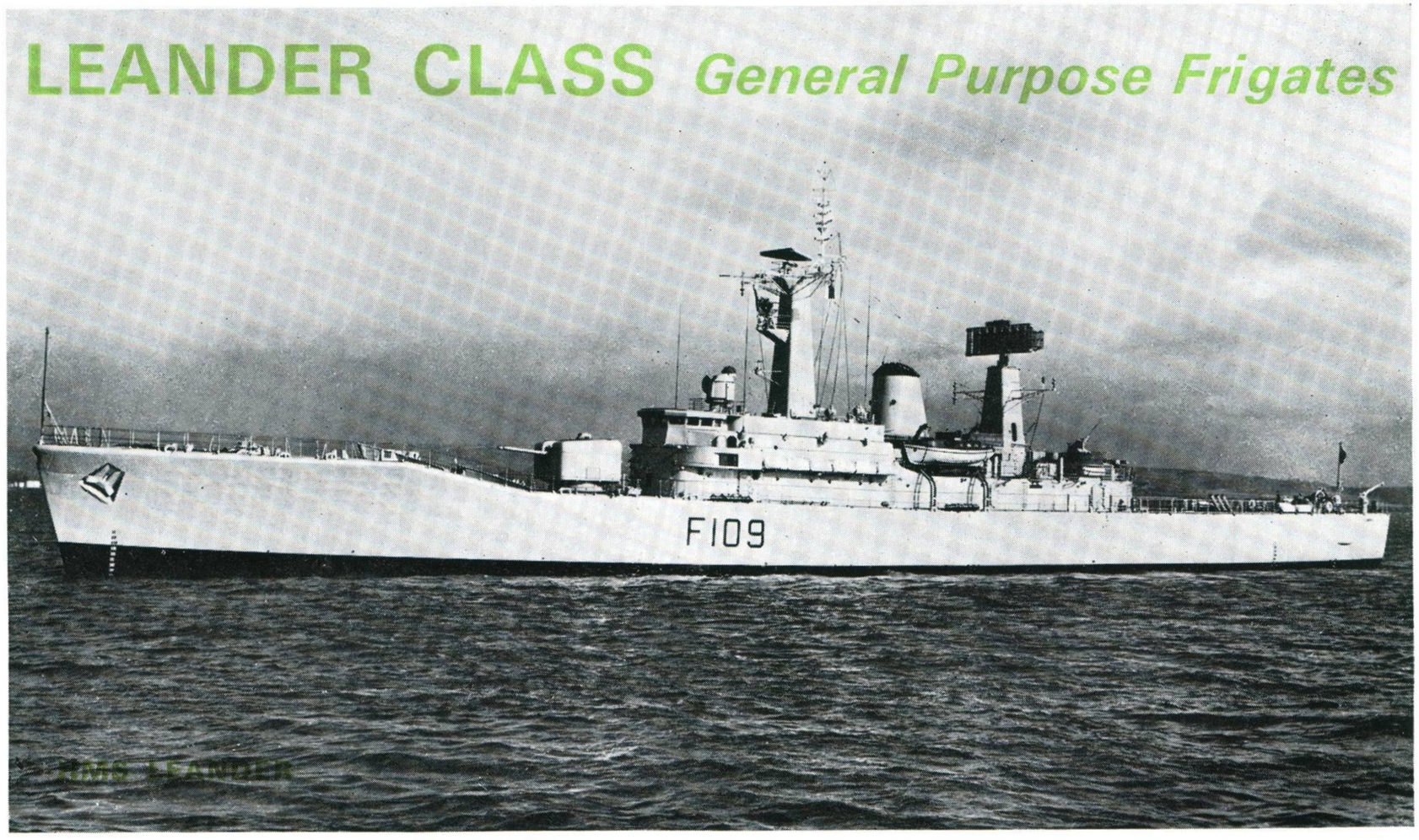


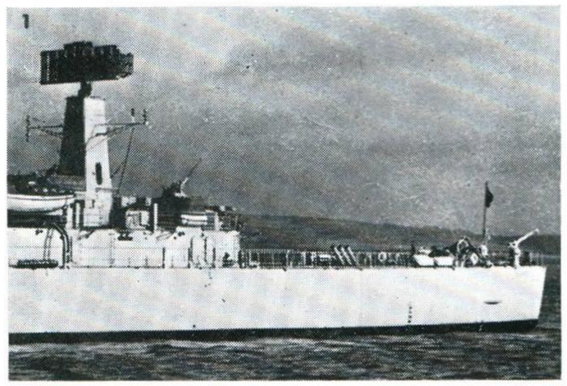
ALOUETTE II?

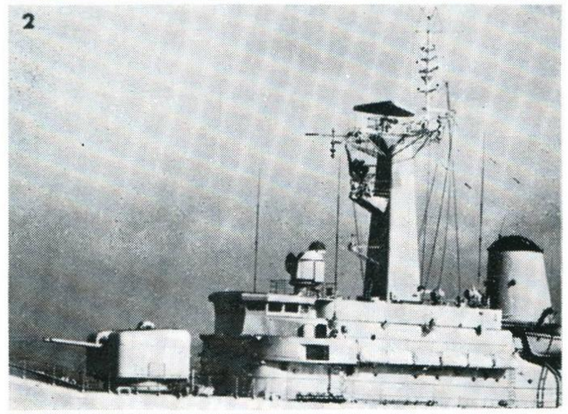
Solutions on the cover

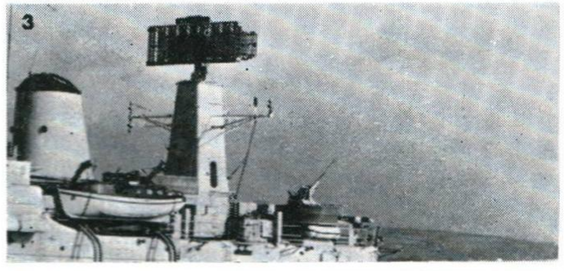


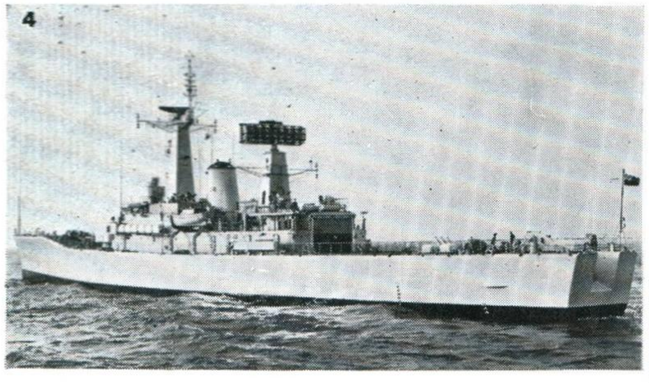
LEANDER CLASS *General Purpose Frigates*




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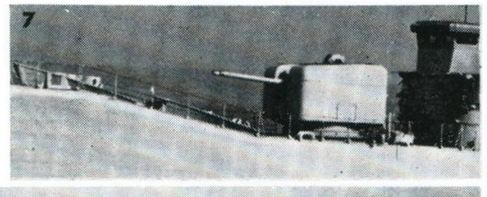

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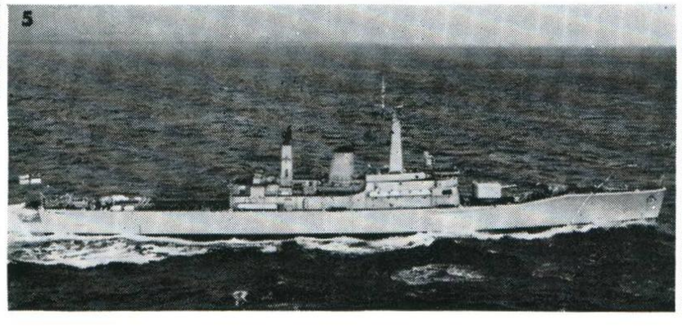


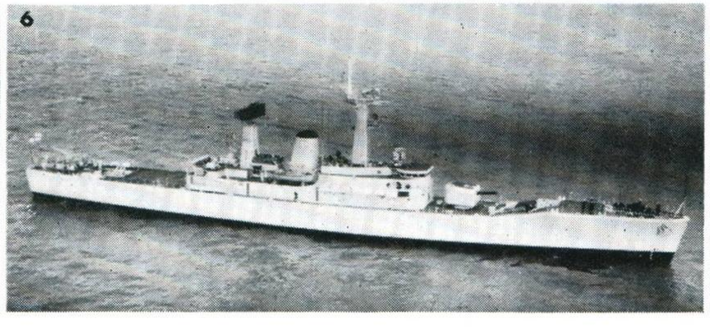
Altogether 22 Leander Class Frigates have been scheduled and the majority are now in commission. These frigates had an overall length of 372 feet and a displacement of about 2,300 tons standard. Several ships of the class are fitted with Seacat anti-aircraft missile launchers and all have a flight deck for a Wasp helicopter. Report these targets as Leander Class (or otherwise if jokers) to the instructions on page 83. Key pictures bear the name of individual ships of the Class.

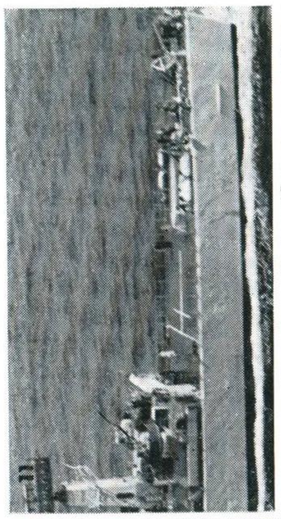



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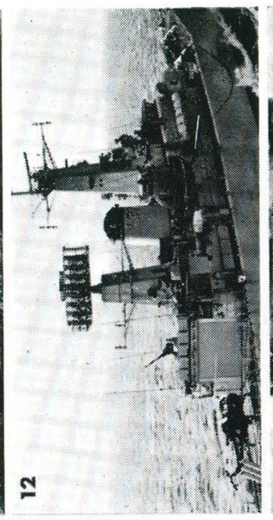

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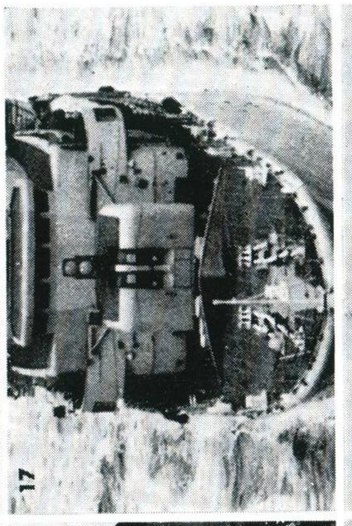

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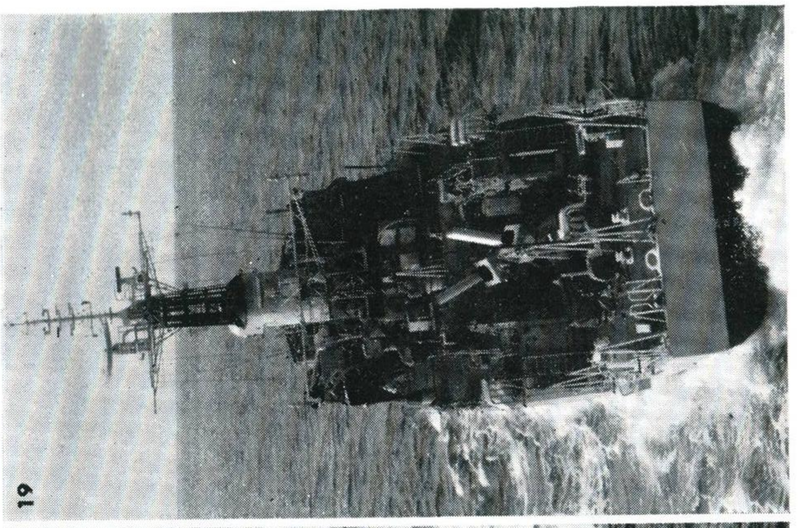
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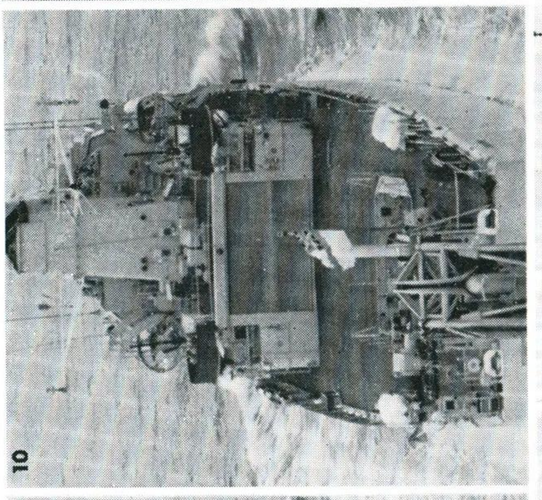
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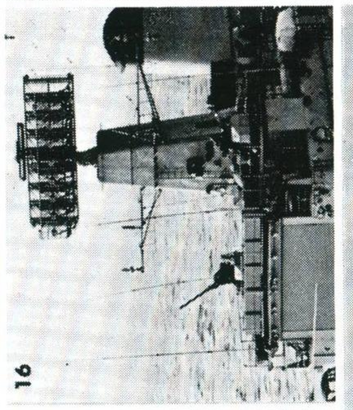
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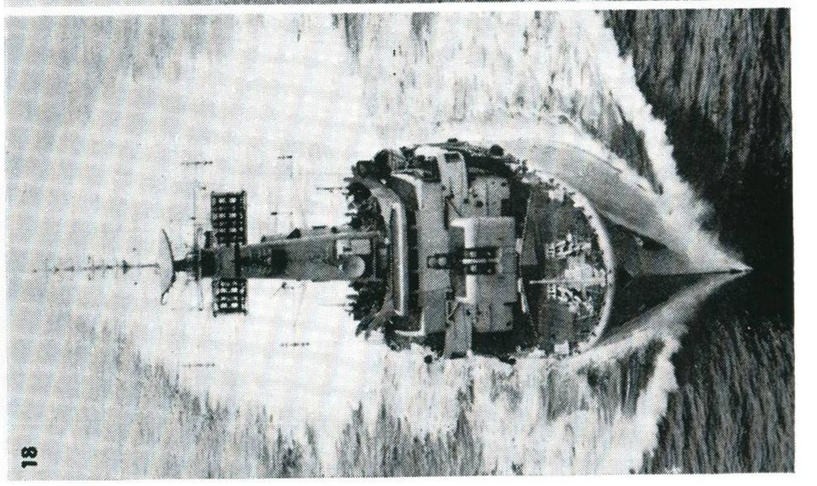
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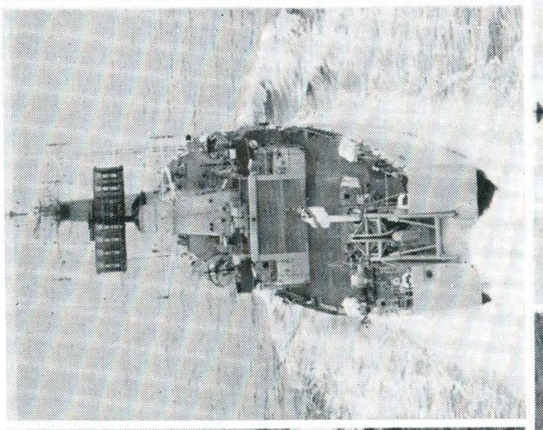
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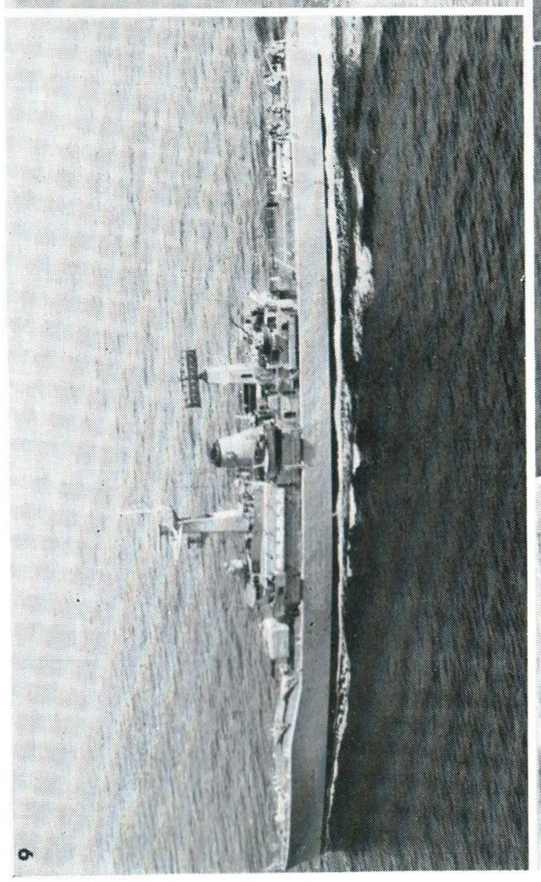
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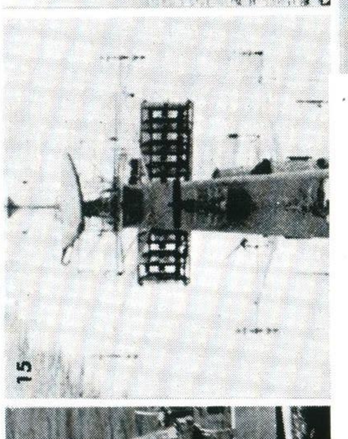


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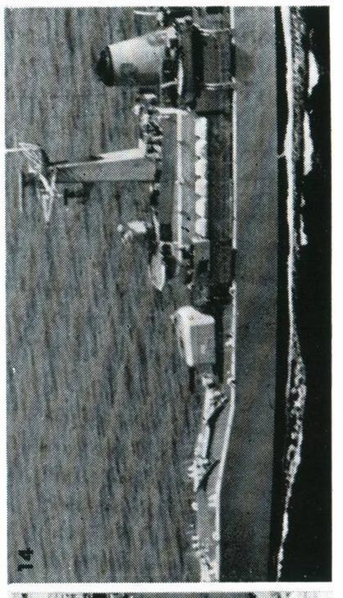


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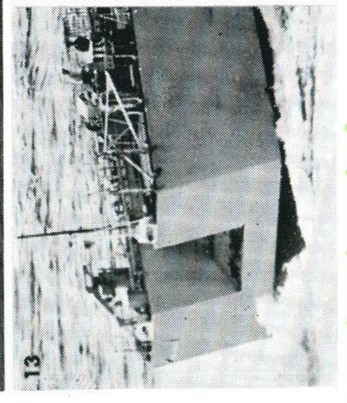




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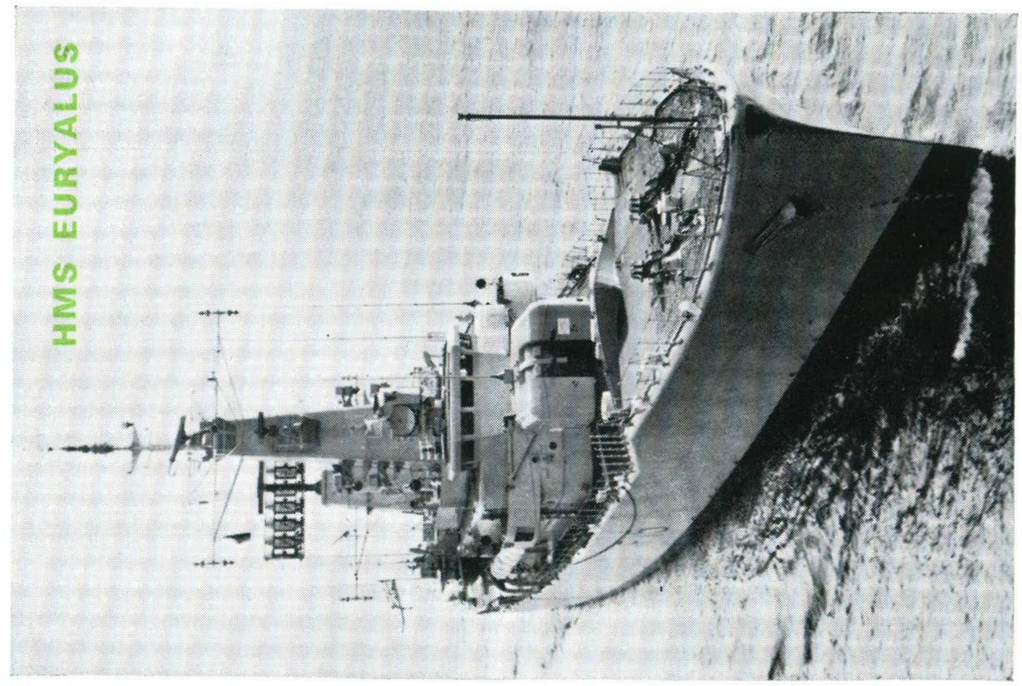
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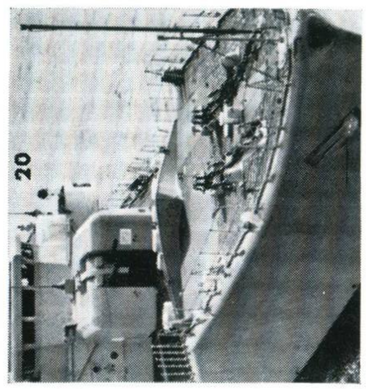


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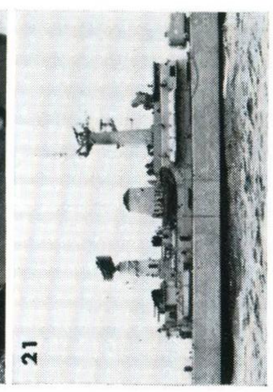


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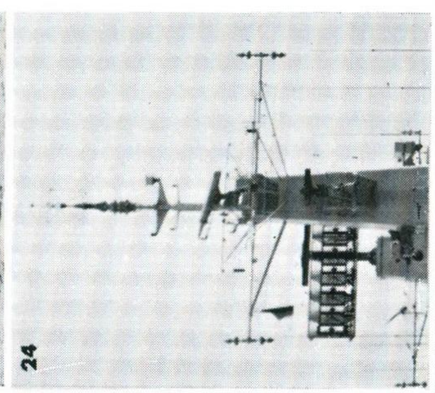
Solutions on the cover



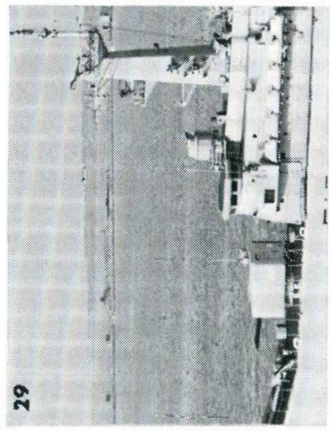
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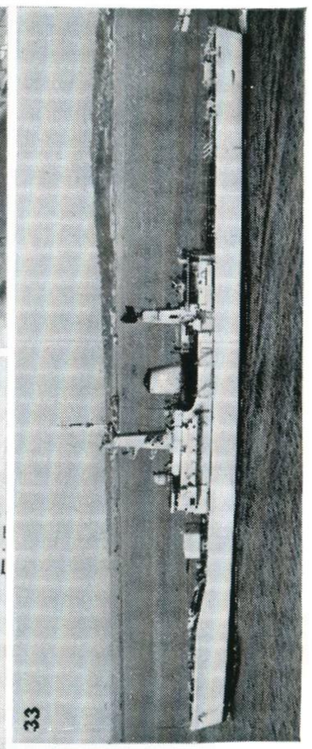
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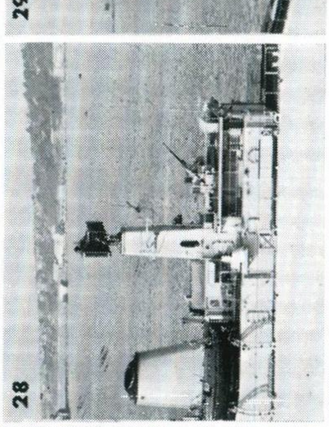
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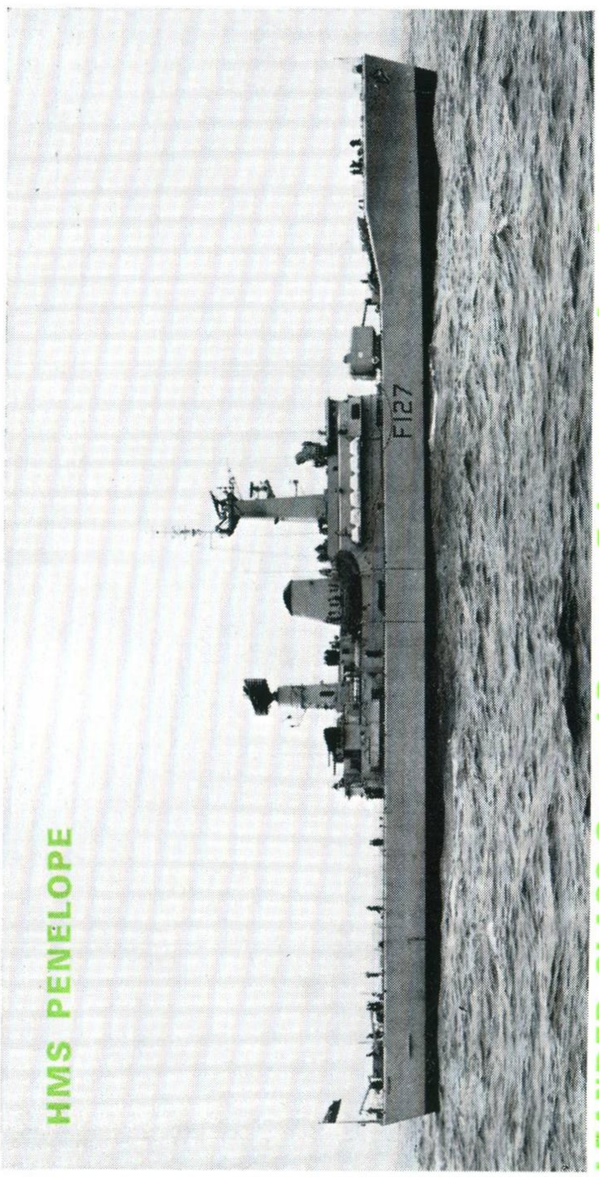
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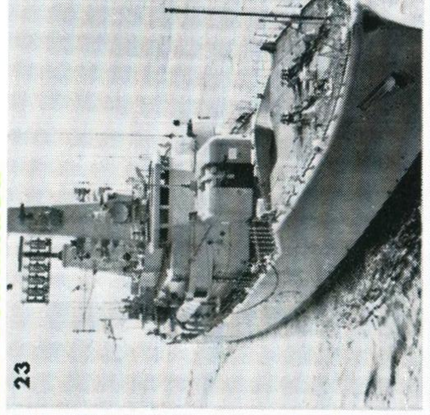




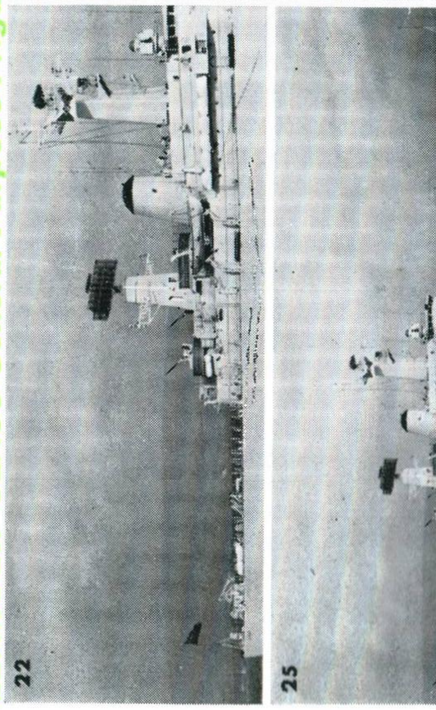
HMS PENELOPE

F127

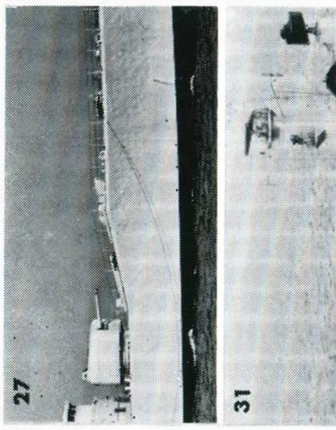
LEANDER CLASS *General Purpose Frigates continued*



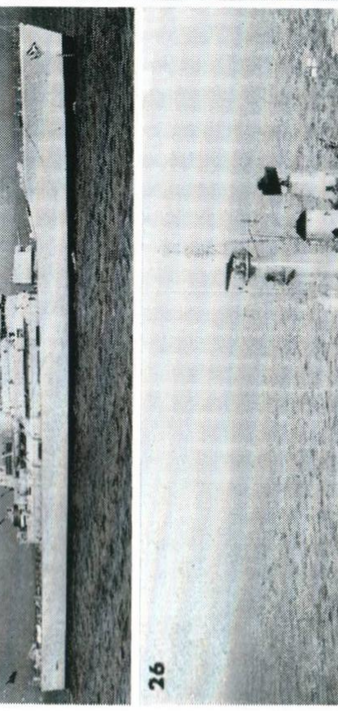
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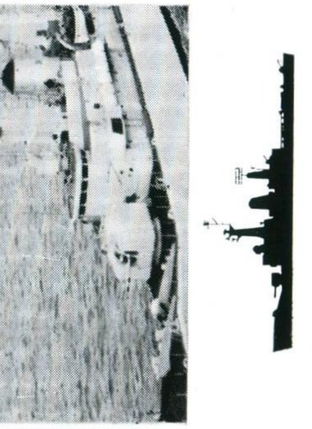
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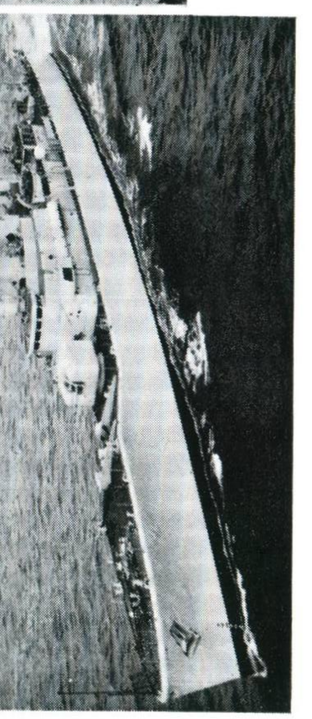
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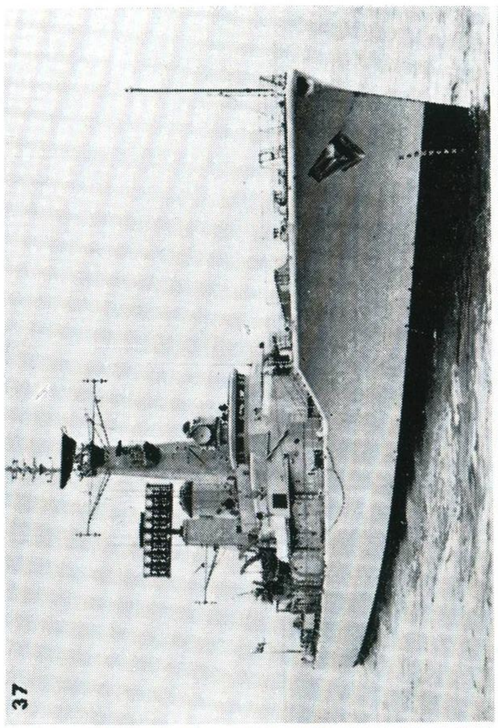
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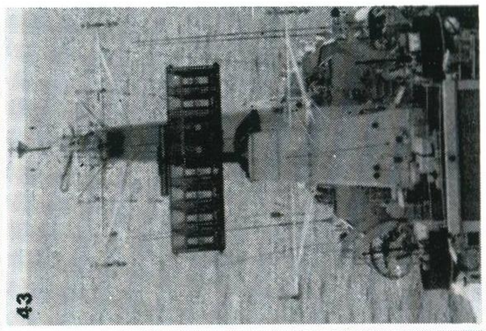


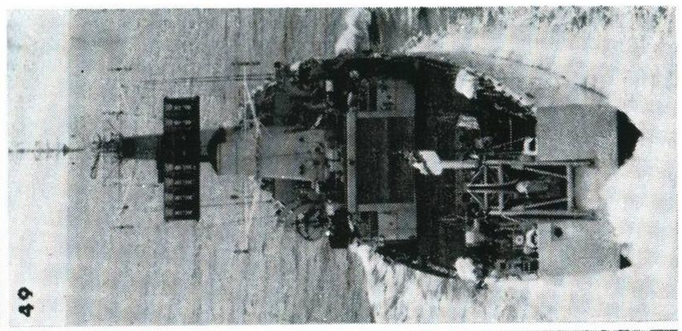
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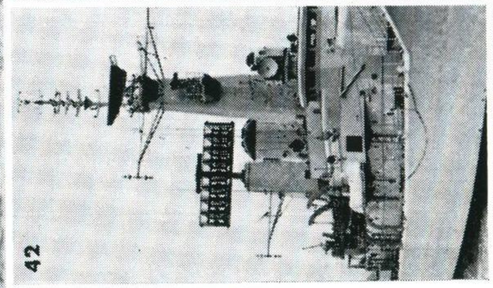


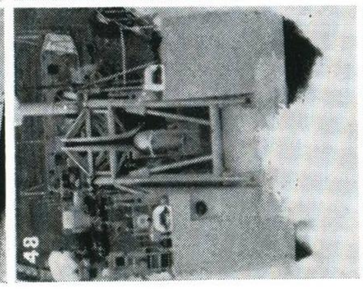
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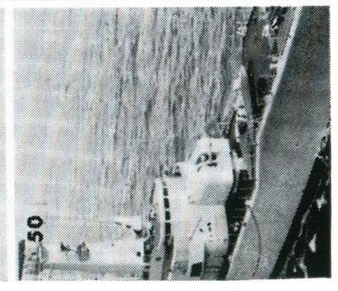

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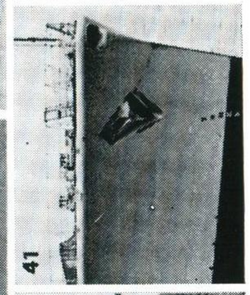

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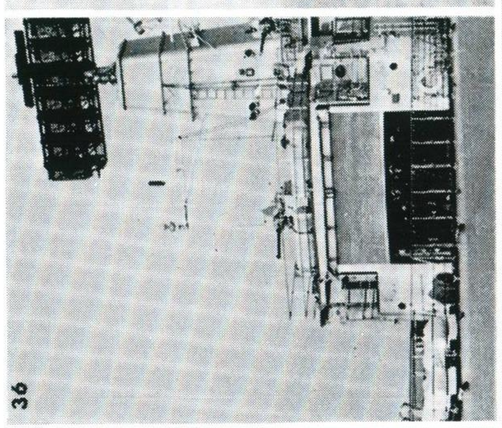

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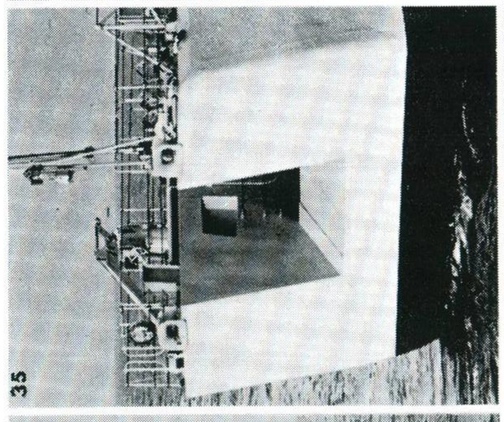

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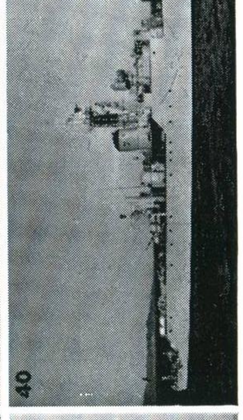

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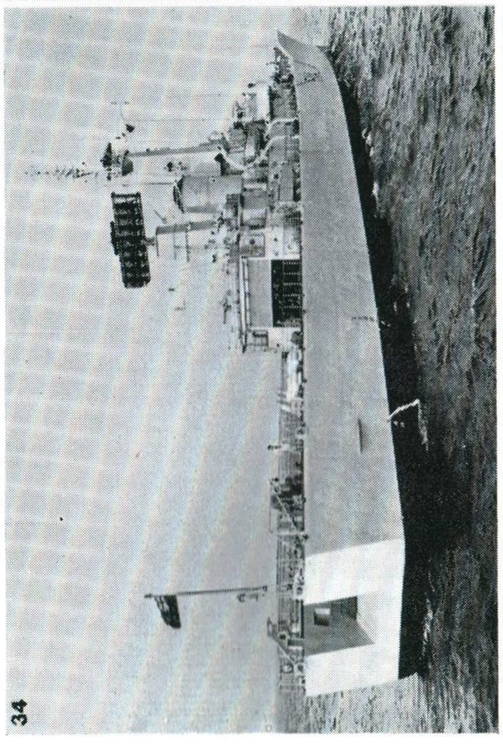

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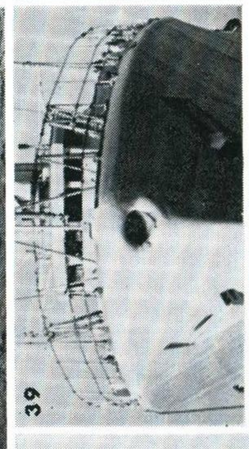

HMS AJAX

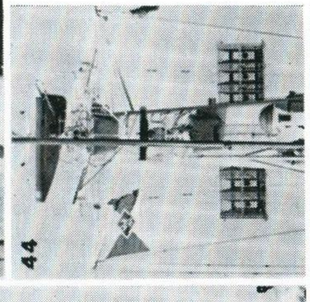

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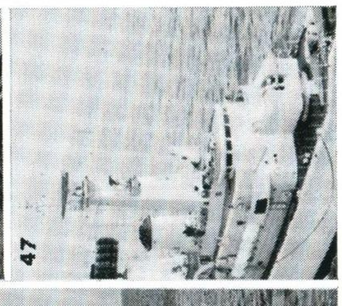

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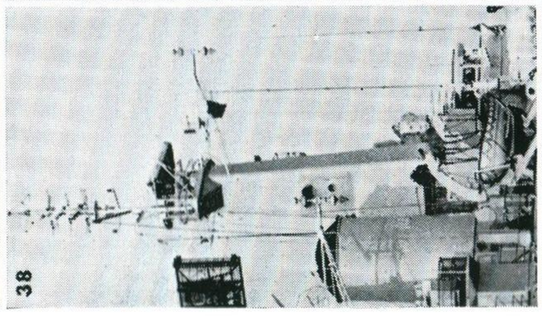

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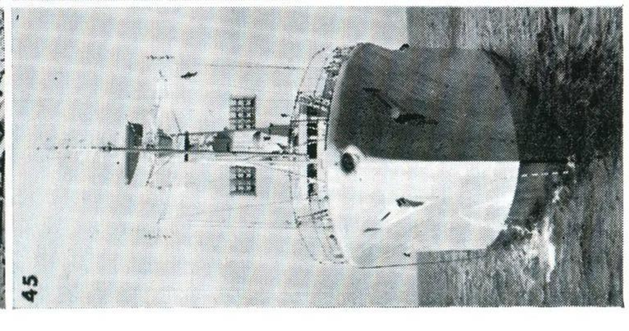

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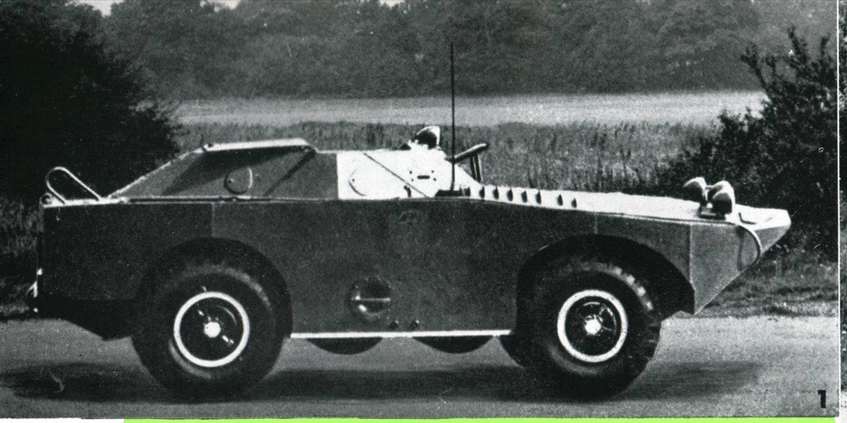

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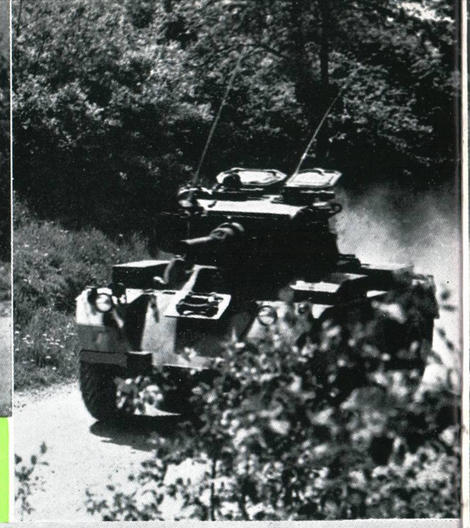

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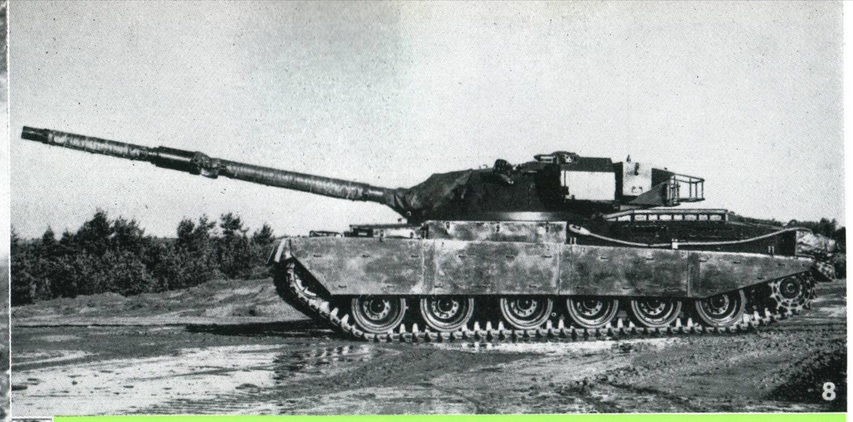
AFV test

Solutions by type, function and nationality on the cover

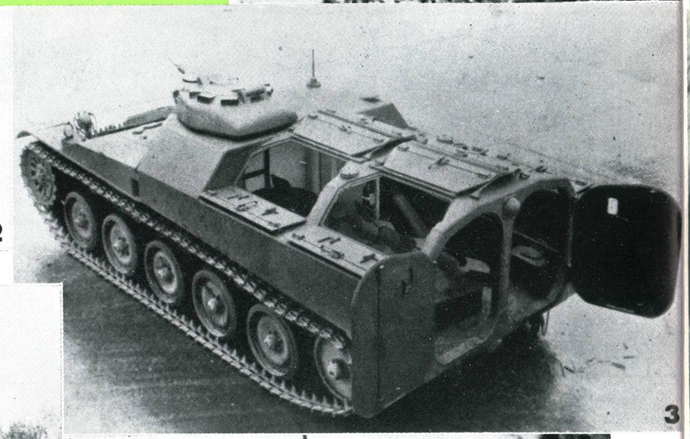

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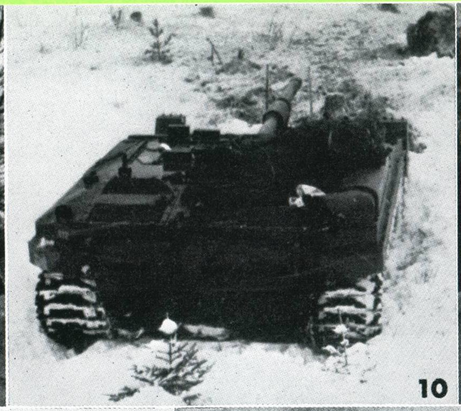

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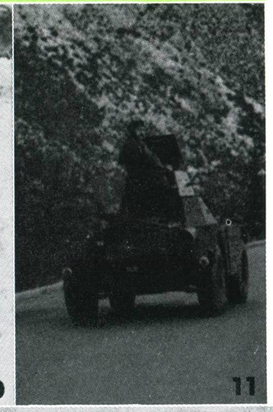

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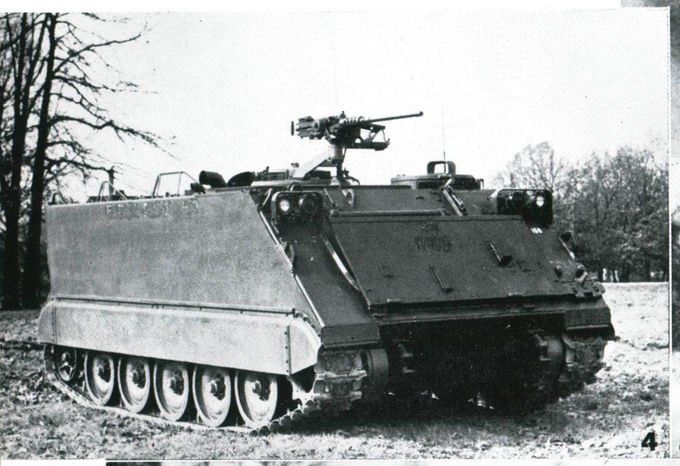

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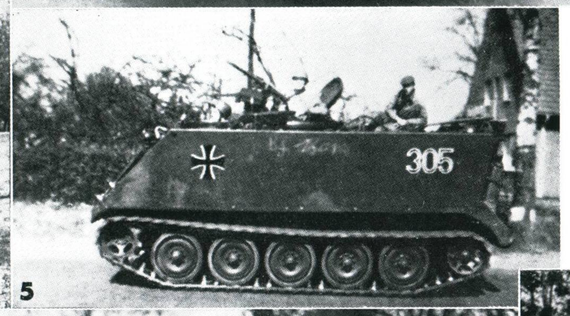

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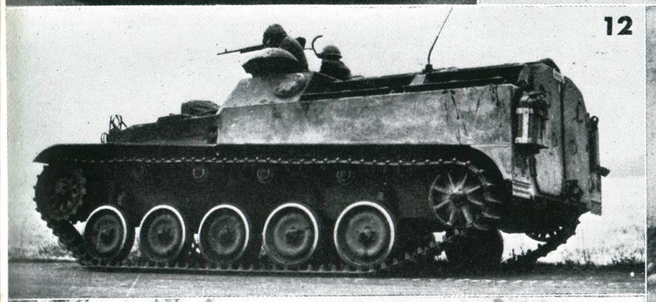

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14

AMX 30 FRENCH BATTLE TANK









AMX 30 is a new battle tank now being produced for the French Army. At first sight it appears very similar to other tanks of its generation: it has a conventional layout, a four-man crew and a long-barrelled 105-mm gun. On closer examination, however, it proves to possess several unique and very commendable, not to say distinguishing, features.

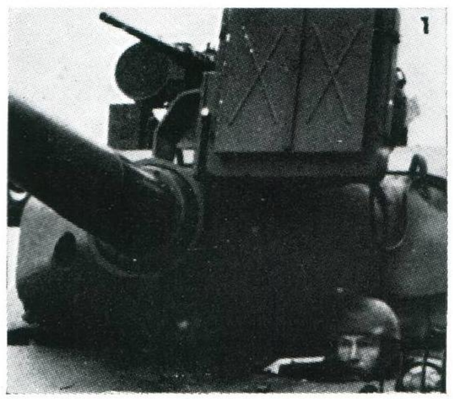
First, it only weighs 33 tons, fully laden, which makes it lighter than all other battle tanks. Secondly, it is powered by a 720-b.h.p. Hispano Suiza engine, which means that it has a higher power-to-weight ratio than any other battle tank. This, together with the low pressure which it exerts on the ground, gives it exceptional cross-country mobility.

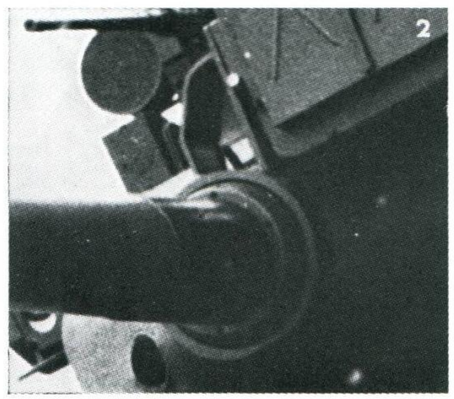


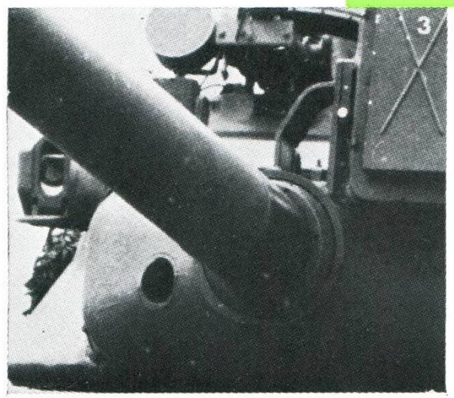
At 7 feet 6 inches from the ground to the top of the turret roof the AMX 30 is also lower than any other turretted battle tank and its low silhouette increases its chances of survival on the battlefield. Its 105 mm. is also noteworthy in that it fires armour-piercing projectiles which contain a hollow charge mounted on ball bearings so that its performance is not degraded by projectile spin.

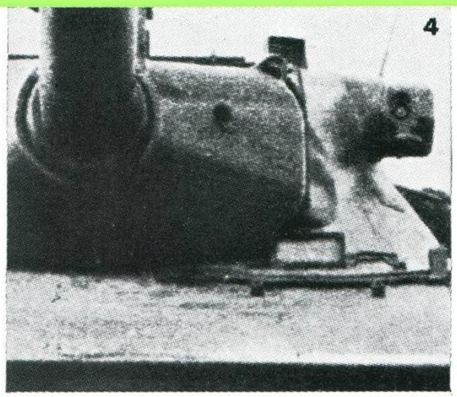
Guns of the latest version, not shown here, have a thermal shield enclosed in a neat cylindrical casing which increases their apparent size. Other external features of the AMX 30 include a well profiled turret with prominent optical range-finder "ears" and five, relatively widely spaced road wheels per side.

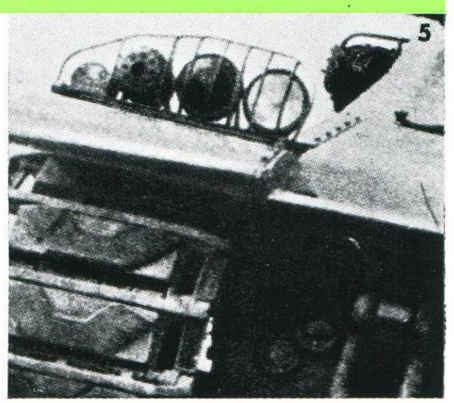
Targets start here **Lesson instructions on page 83**

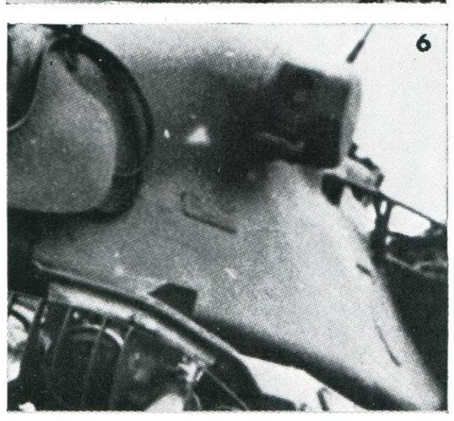

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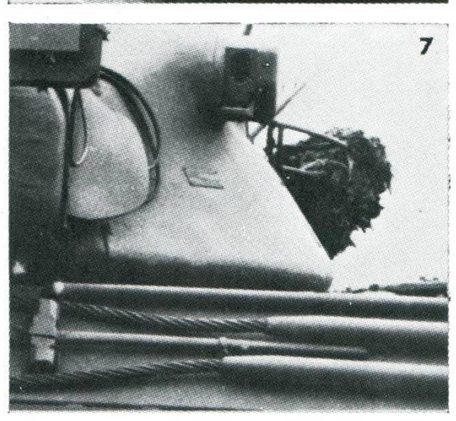

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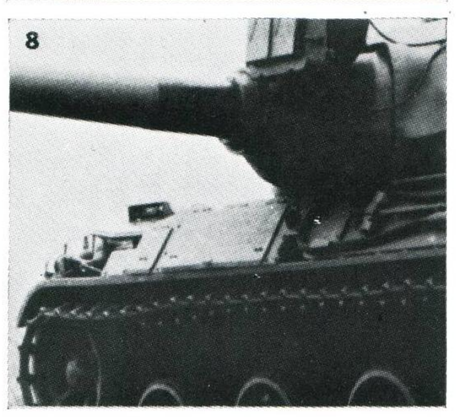

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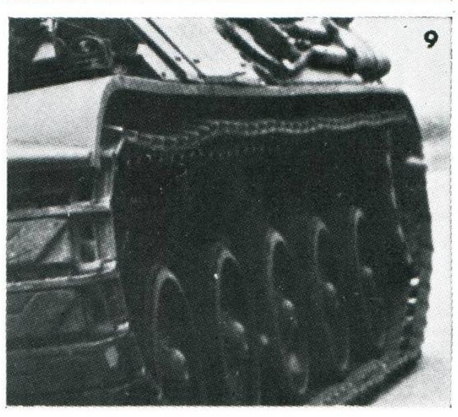

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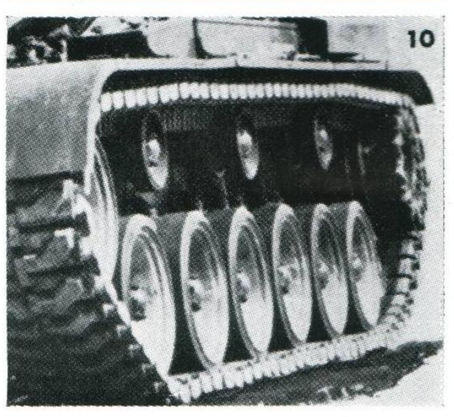

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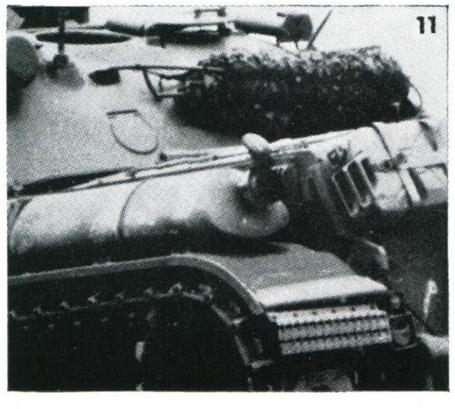

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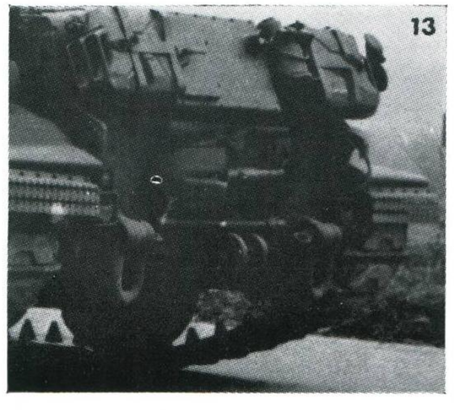

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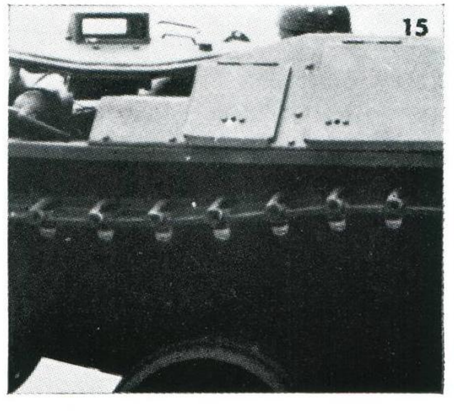

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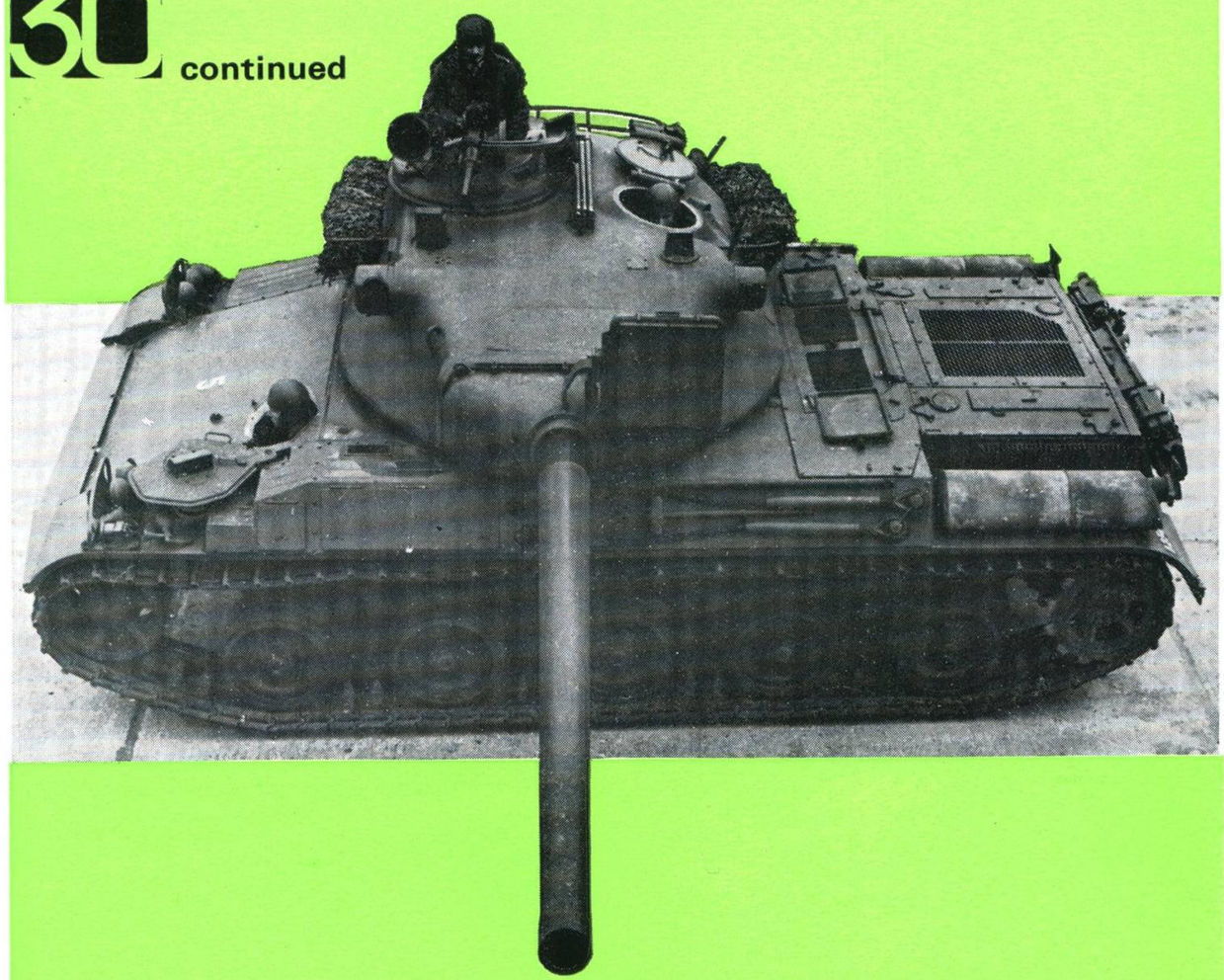

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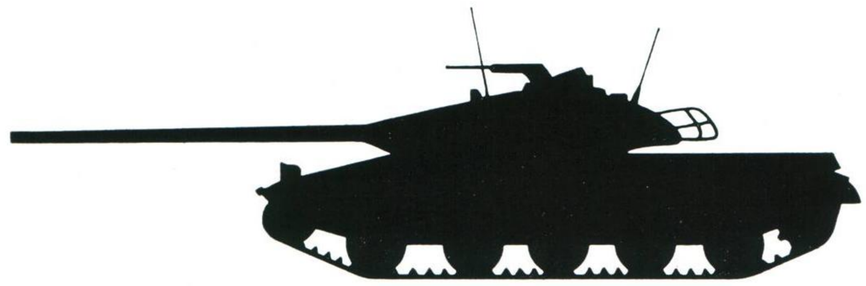
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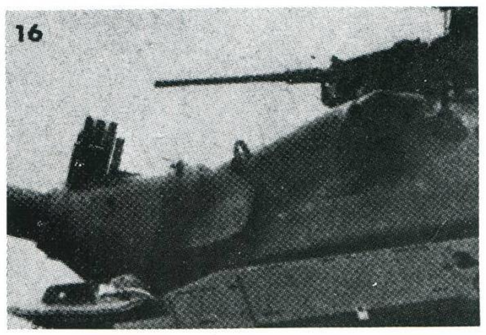


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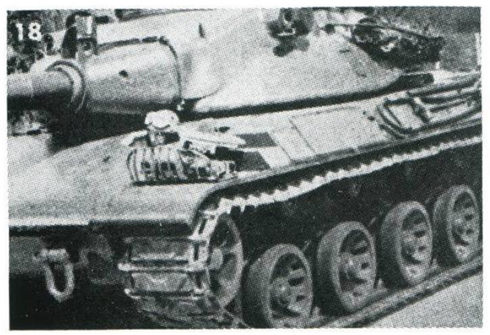
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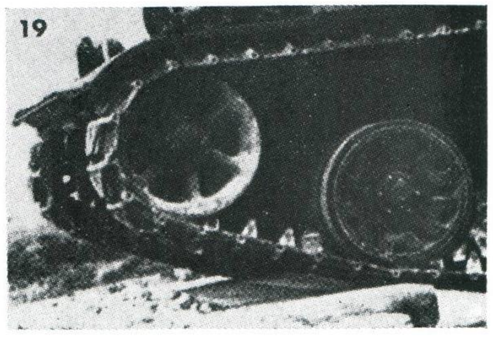
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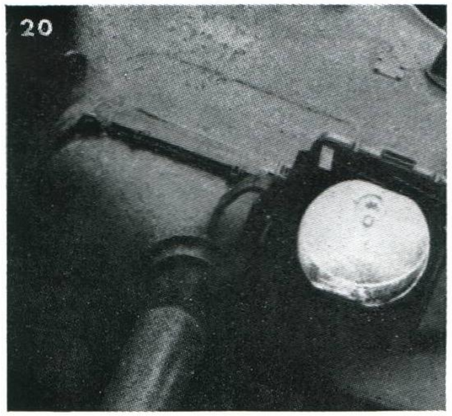


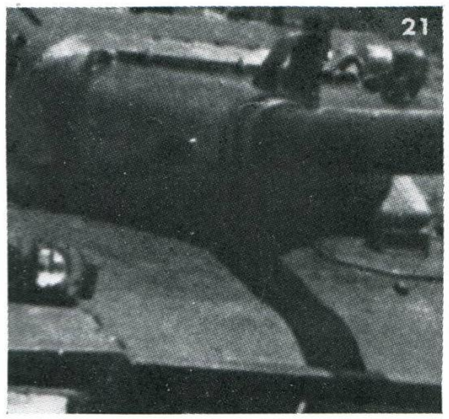
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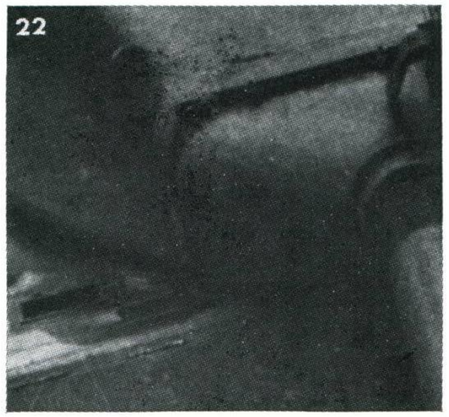


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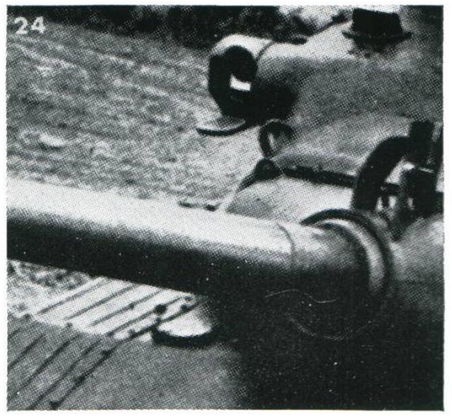


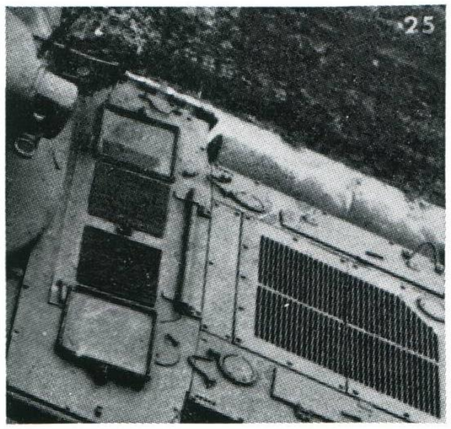

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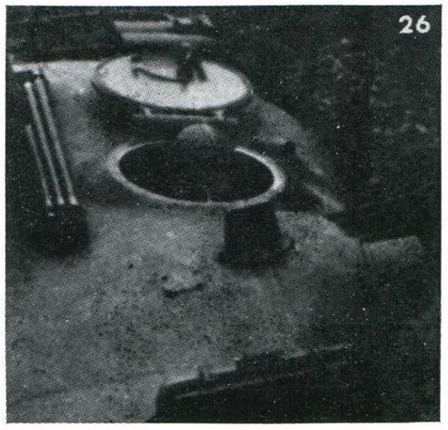

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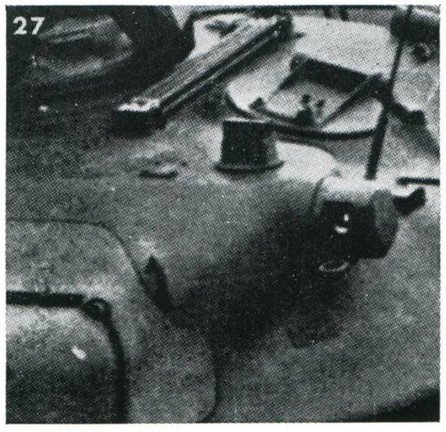

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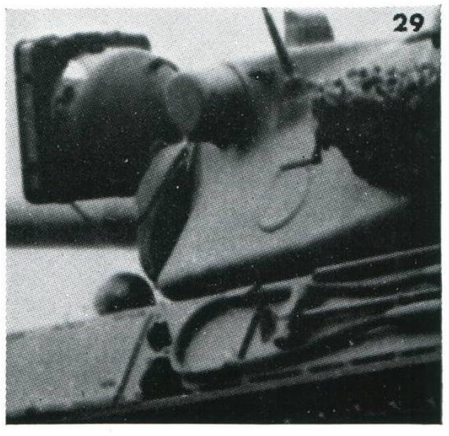

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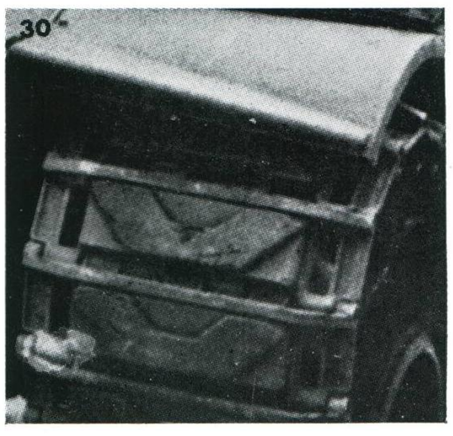

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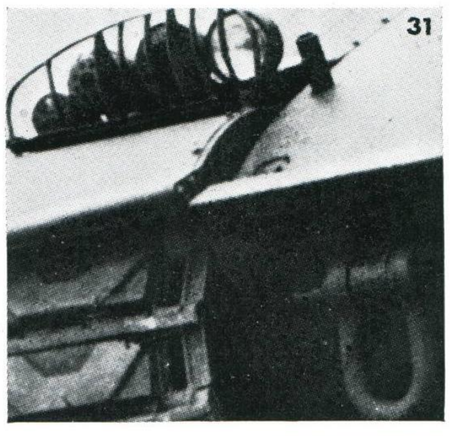

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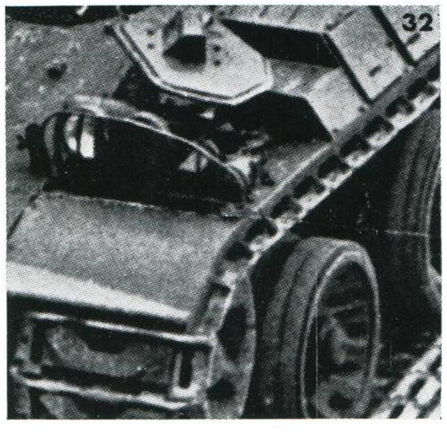

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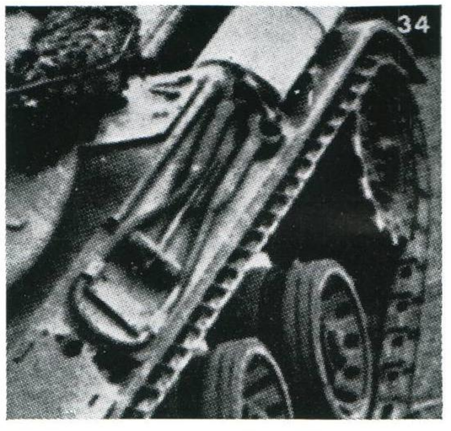

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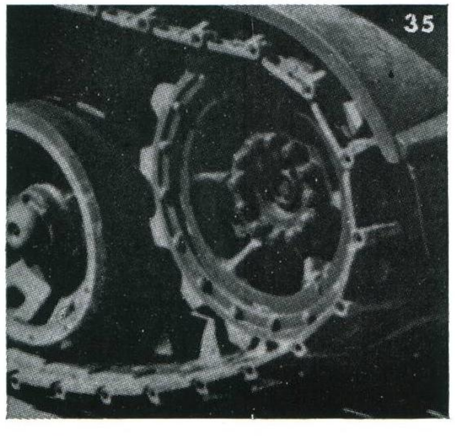

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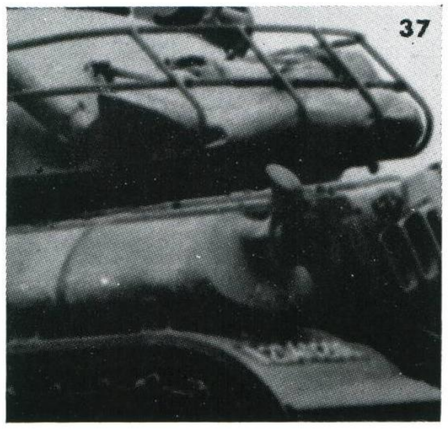

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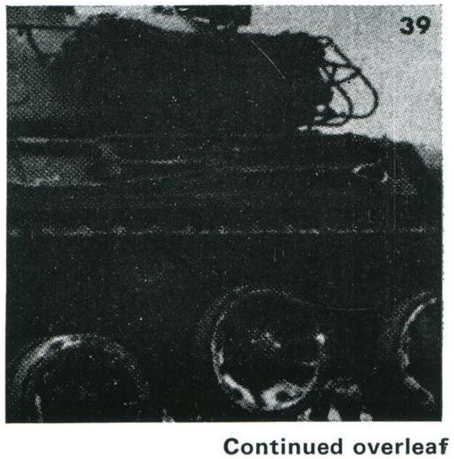

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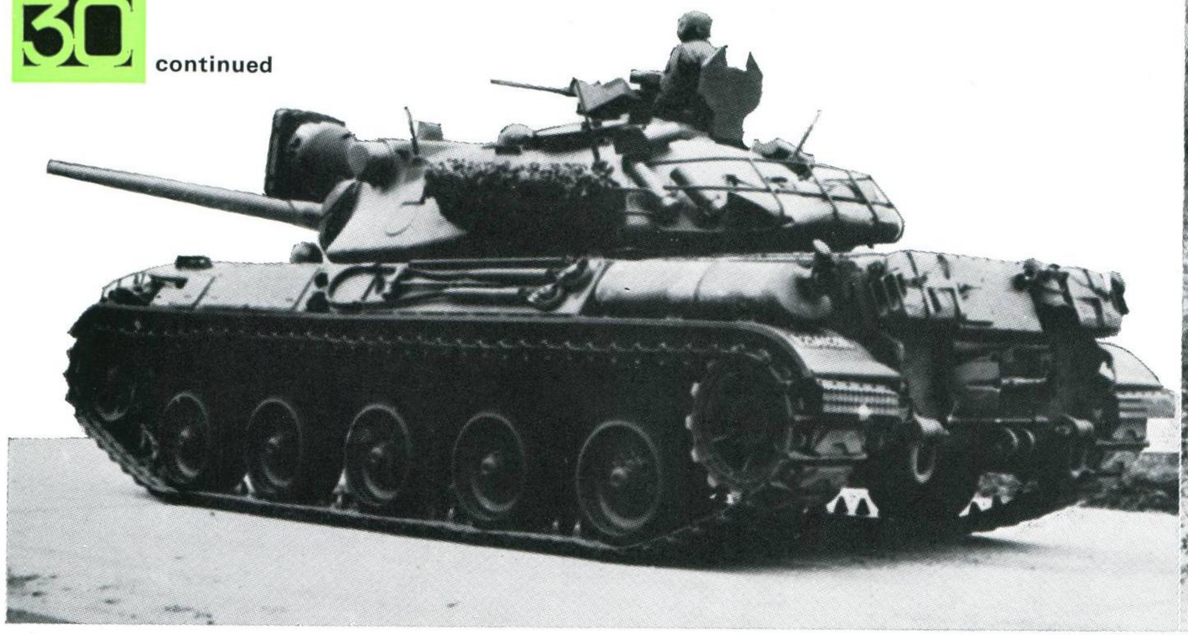

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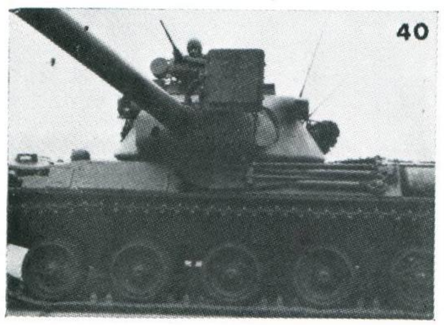
AMX 30 continued





Solutions on the cover

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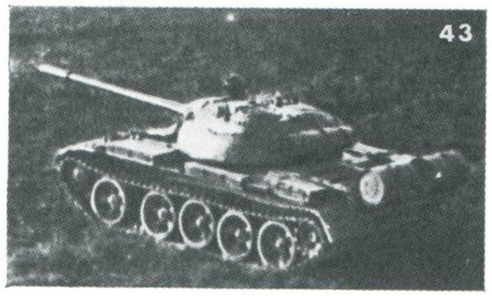
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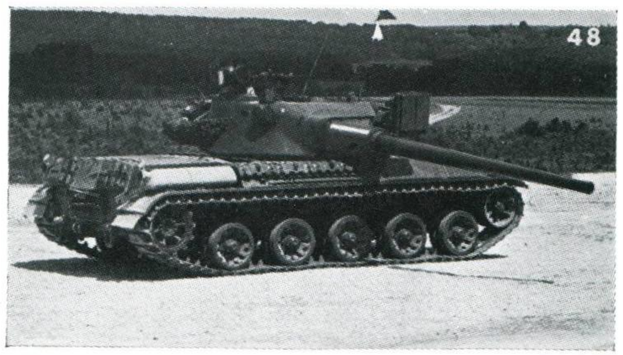
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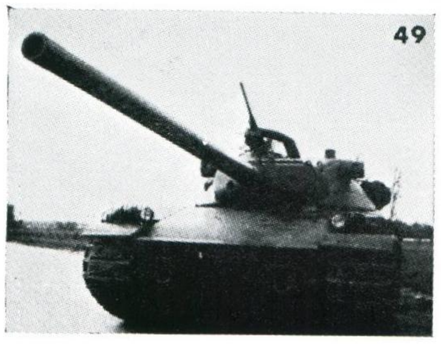
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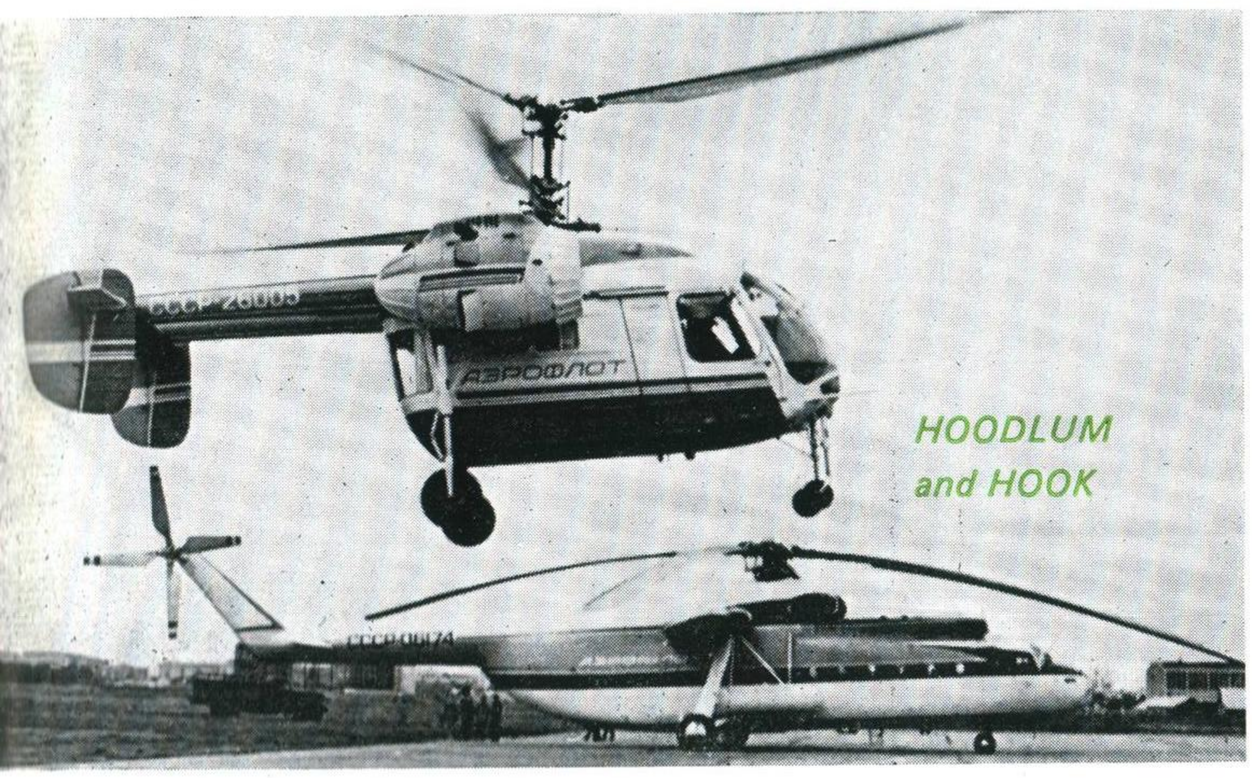
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IN PASSING



HOODLUM and HOOK

RUSSIAN HELICOPTER BRIEFS

Harke *A special version of this helicopter has been built with a shortened undercarriage and another new version features an additional piloting position under the nose.*

Hoplite *These Mi-2 helicopters can be fitted with external fuel tanks on the cabin sides while a special agricultural version carries external hoppers similarly placed.*

KAI-24 *The Kharkov Aviation Institute have designed and built a tandem two-seat autogyro.*

BOOK REVIEW

Taschenbuch für Wehrfragen 1966/67 (*All About the Bundeswehr; AFVs, Aircraft and Ships of the Armed Forces*) *Sixth Edition. Issued by Dr. Hans Edgar Jahn, Kurt Neher and Oberstleutnant Lothat Roske in cooperation with the Federal Ministry of Defence. Published by Umschau Verlag, 18–24 Stuttgarter Strasse, 6 Frankfurt A.M. Plastic bound. Price Dm 16.*

This compendium of the Federal German Armed Forces maintains the high standard that has been set in Germany in recent years by publications on military subjects and in particular by the Journal *Soldat und Technik* which has sponsored this annual pocket-sized manual. This work contains pages of German formation and rank insignia in colour, over a hundred pages of art printing in addition to 600 pages of information. A ship list of the Federal German Navy is supported by photos, profile sketches and data, AFVs are covered by photos, text and drawings and aircraft by photos, text and silhouettes. A compact and comprehensive and authoritative work on the German Armed Forces.

B.R.

Lesson Instructions

To obtain the maximum benefit from the training devices published in this *Journal*, the following procedure should be adopted.

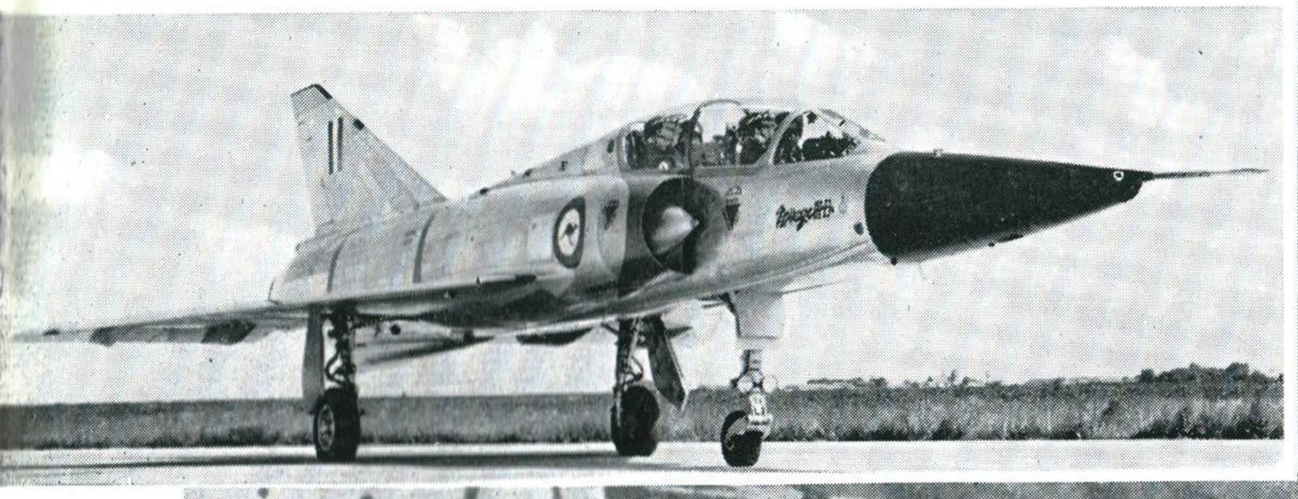
1. **Read the text associated with the lesson.**
2. **Prepare a list of target numbers so as to be able to tackle the targets in any order.**
3. **Identify the target pictures by comparing them with the key views: start with the easy ones so as to gain experience: also use targets already identified to solve the more difficult ones.**
4. **When certain of the identity of a target write down its name *IMMEDIATELY* against the appropriate number on your list. THIS IS IMPORTANT.**
5. **Lessons should not be hurried or given a time limit. So far as beginners are concerned, it is more important to identify accurately than quickly.**
6. **Do not attempt conscious memorising of details, shapes, or names.**

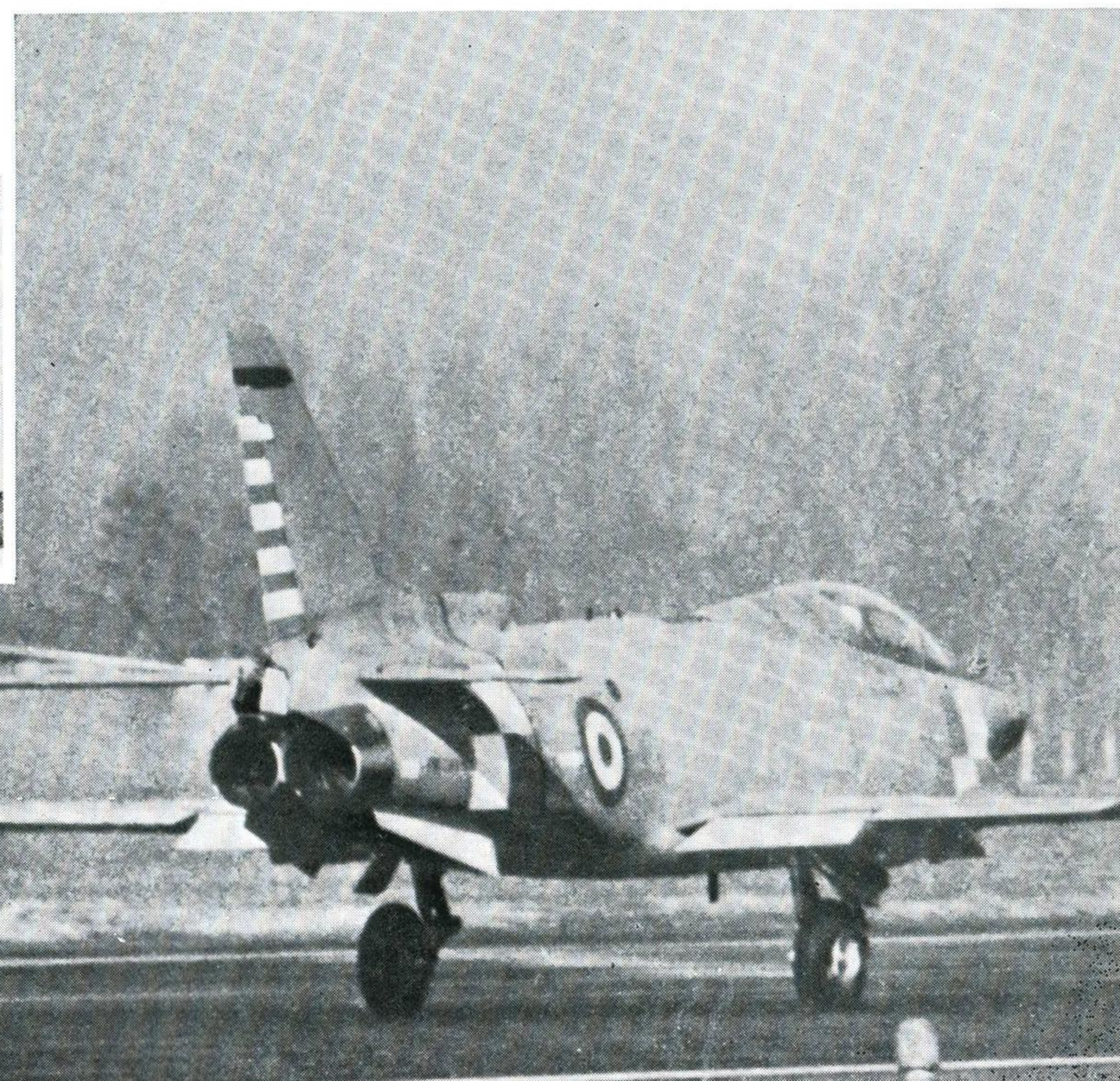
Conduite des leçons

1. **Lire le texte correspondant à la leçon.**
2. **Préparer une liste de numéros de cible, de façon à pouvoir prendre les cibles dans n'importe quel ordre.**
3. **Identifier les photos de la cible en les comparant avec les vues-clé: commencer par les plus faciles de manière à gagner de l'expérience: se servir aussi de cibles déjà identifiées pour trouver les plus difficiles.**
4. **Quand vous serez certain de l'identité d'une cible, notez son nom immédiatement en face du numéro correspondant sur votre liste. CECI EST IMPORTANT.**
5. **Les leçons ne devront pas être précipitées ou d'une durée limitée à l'avance. En ce qui concerne les débutants, il est plus important d'identifier avec précision que rapidement.**
6. **Ne pas s'efforcer d'apprendre par cœur les détails, les formes ou les noms.**

The Mirage IIID, a two-seat version of the III-O, is entering R.A.A.F. service; altogether, the R.A.A.F. plan for 100 III-Os and ten III-Ds.

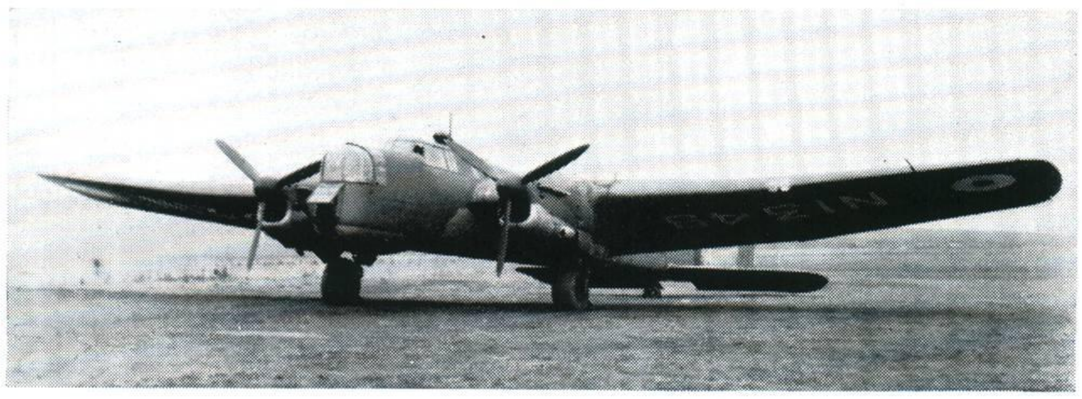
A twin-engined version of the Fiat G91, the G91Y tactical reconnaissance fighter prototype.







Cover Photo: Far Eastern scene—A Pioneer of the Royal Air Force flying over a Twin Pioneer of the Royal Malaysian Air Force.



WHAT WAS IT?

A famous bomber of the War that had a characteristic nose-down flying attitude and was often identified by its "sit" in the air. If this is too easy try dating the year of this photo; there are several clues.

Solution next month. Last month: **Bell P-39 Airacobra.**

Heron C.4 of The Queen's Flight.

SOLUTIONS TO TESTS AND EXERCISES

Page 60

THUNDERCHIEF

All targets are of **F-105 Thunderchiefs** except as follows: No. 10 **Super Sabres**, No. 21 **Fiddler**, No. 36 **Mirage III**, No. 49 **Super Sabre**. (Note: the aircraft shown refuelling a **Thunderchief** in Target No. 32 is a **Sea Vixen**).

Page 64

VERTOL 107

All targets are of **Vertol 107** helicopters except for No. 20 which is a **Retriever** and No. 26 which is a **Chinook**.

Page 68

SAFIR

All targets are of **Safirs** except No. 12 which is a **Trener Master**.

Page 70

TEST PAPERS

DARING CLASS?

	*			

COMMANDO CARRIER?

			*	

SOVIET G CLASS?

	*			
		*		

GNAT?

		*		

JET PROVOST?

	*			
*				

ALOUETTE II?

		*		

Page 72

LEANDER CLASS GENERAL PURPOSE FRIGATES

All targets are of **Leander Class** frigates except Nos. 19 and 40 which are **Whitby Class** frigates.

Page 76

AFV TEST

No.	Type	Function	Nationality
1	BRDM	Scout Car	Russian
2	BTR-50P	Armoured Personnel Carrier	Russian
3	AMX-VTT	Armoured Personnel Carrier	French
4	M113	Armoured Personnel Carrier	American
5	M113	Armoured Personnel Carrier	American in German service
6	HS30 (foreground)	Armoured Personnel Carrier	German
	M48A2 (background)	Medium Tank	American
7	Saladin	Armoured Car	British
8	Chieftain	Battle Tank	British
9	T-54	Medium Tank	Russian
10	S-tank	Battle Tank	Swedish
11	Ferret	Scout Car	British
12	AMX-VTT	Armoured Personnel Carrier	French
13	Saracen (left)	Armoured Personnel Carrier	British
	Daimler (right)	Armoured Car	British
14	BTR-50P (foreground)	Armoured Personnel Carrier	Russian
	T-54 (background)	Medium Tank	Russian

Page 78

AMX 30 FRENCH BATTLE TANK

All targets are of French **AMX 30 Battle Tanks** except Nos. 10 and 23 which are **American M47s** and No. 43 which is a **Russian T-54.**



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