

07



JOINT

SERVICES

RECOGNITION

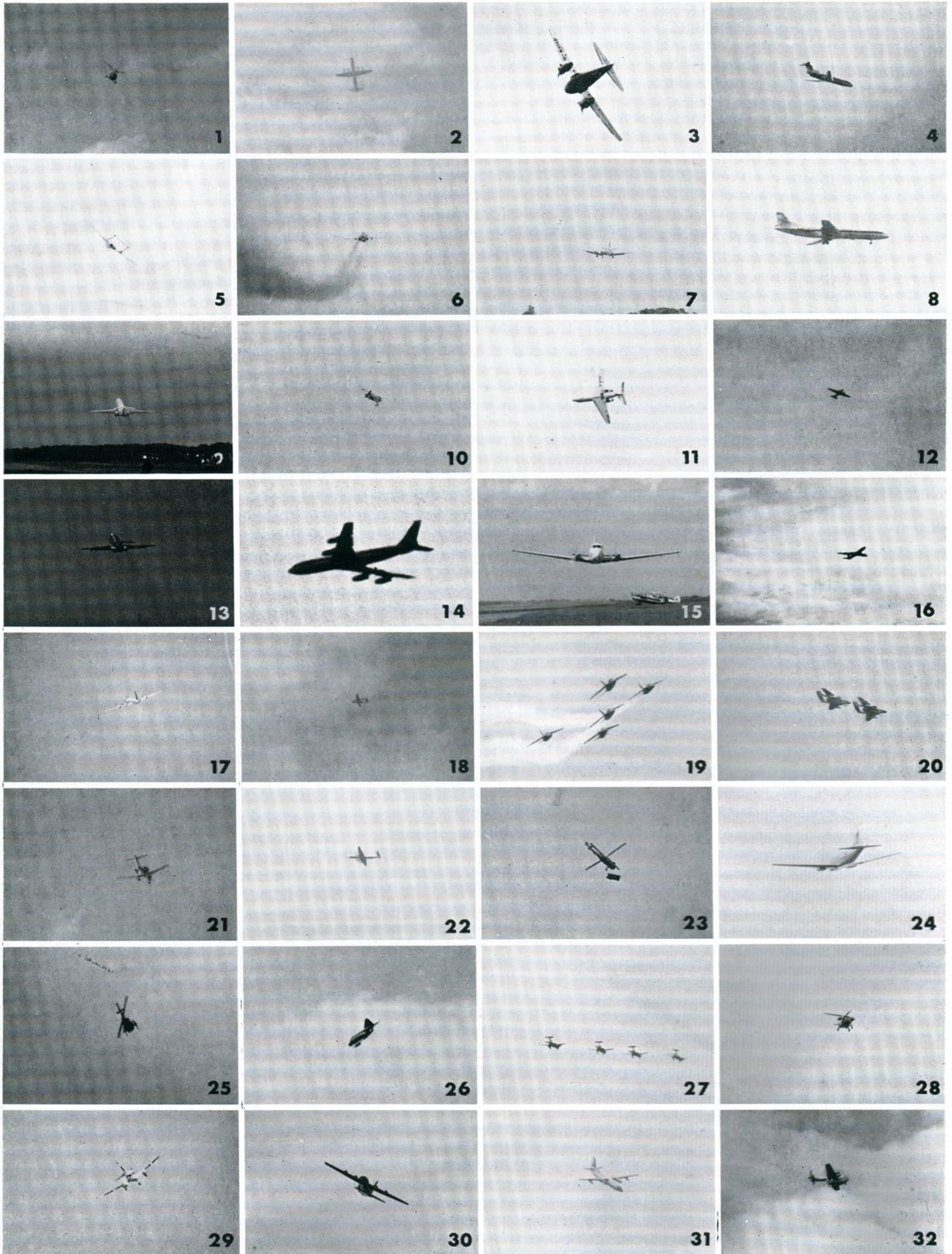
Journal



Vol. 24 JUNE 1969 No. 6

TESTING TIME

Solutions on the back cover





JOINT SERVICES

RECOGNITION JOURNAL

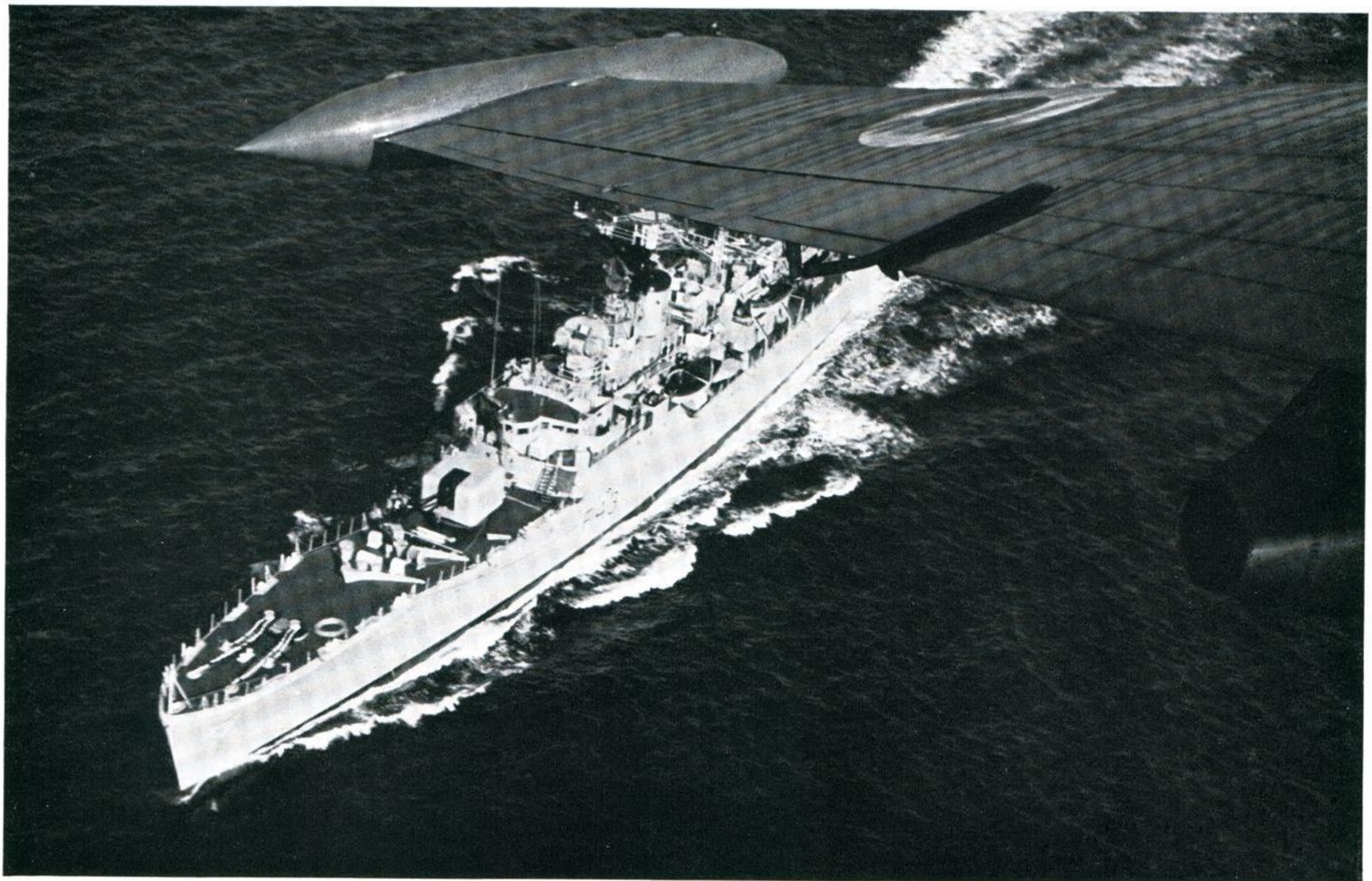
The *Joint Services Recognition Journal* is a monthly publication produced by the Directorate of Flying Training (R.A.F.), Ministry of Defence, and prepared in collaboration with the Admiralty Board, the Army Department and the Ministry of Technology. Applications for copies can only be accepted from 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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* *Identification Lessons*

WARSHIPS IN THE MEDITERRANEAN



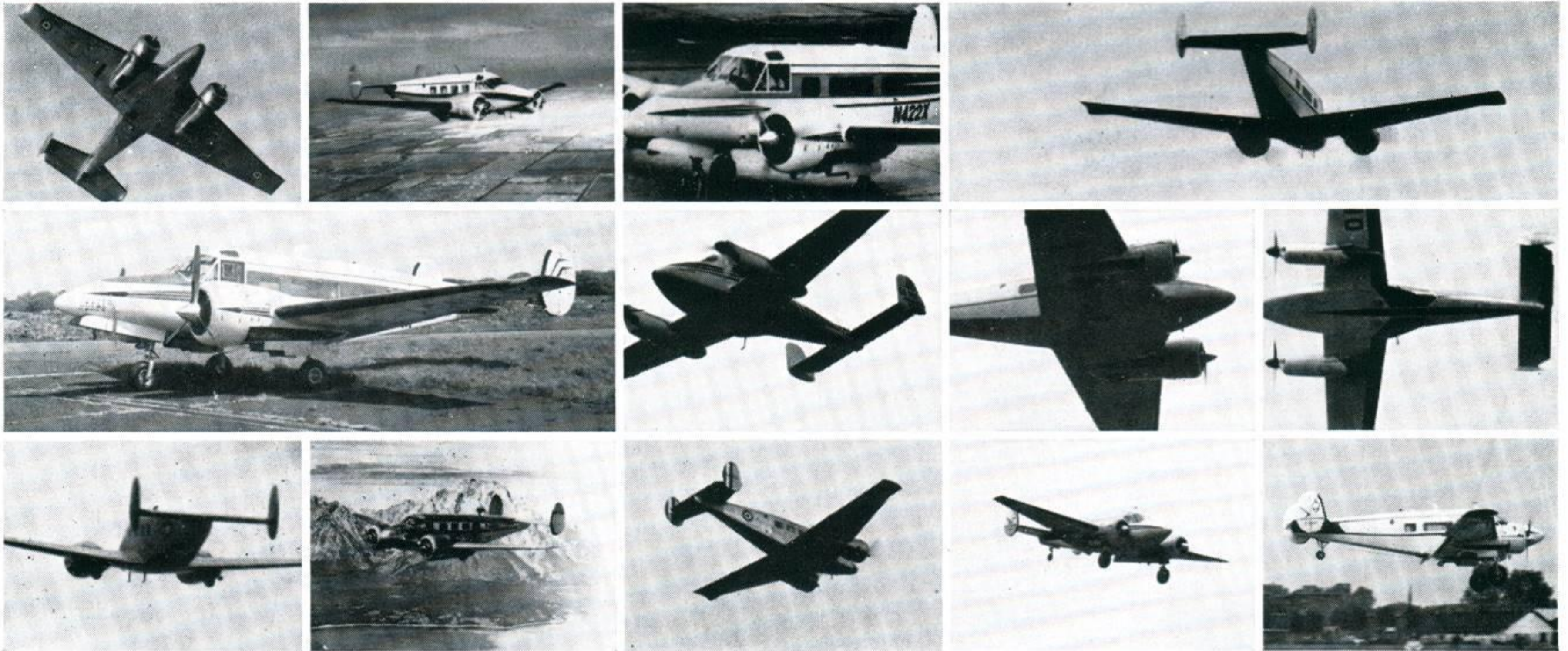
The Royal Navy frigate HMS Torquay photographed from the air when taking part in the large-scale NATO Mediterranean exercise "Eden Apple".

TEST PAPERS

Can you identify these aircraft?

Solutions on the cover

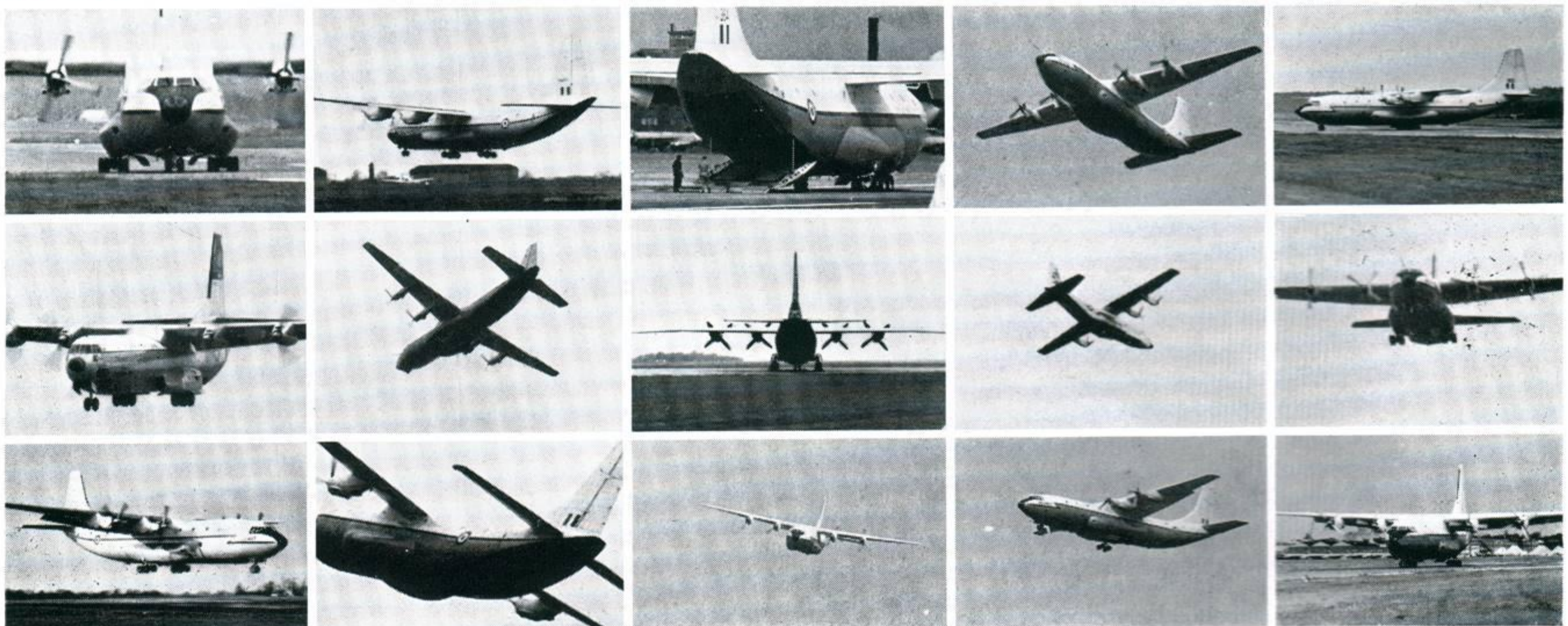
BEECH 18?



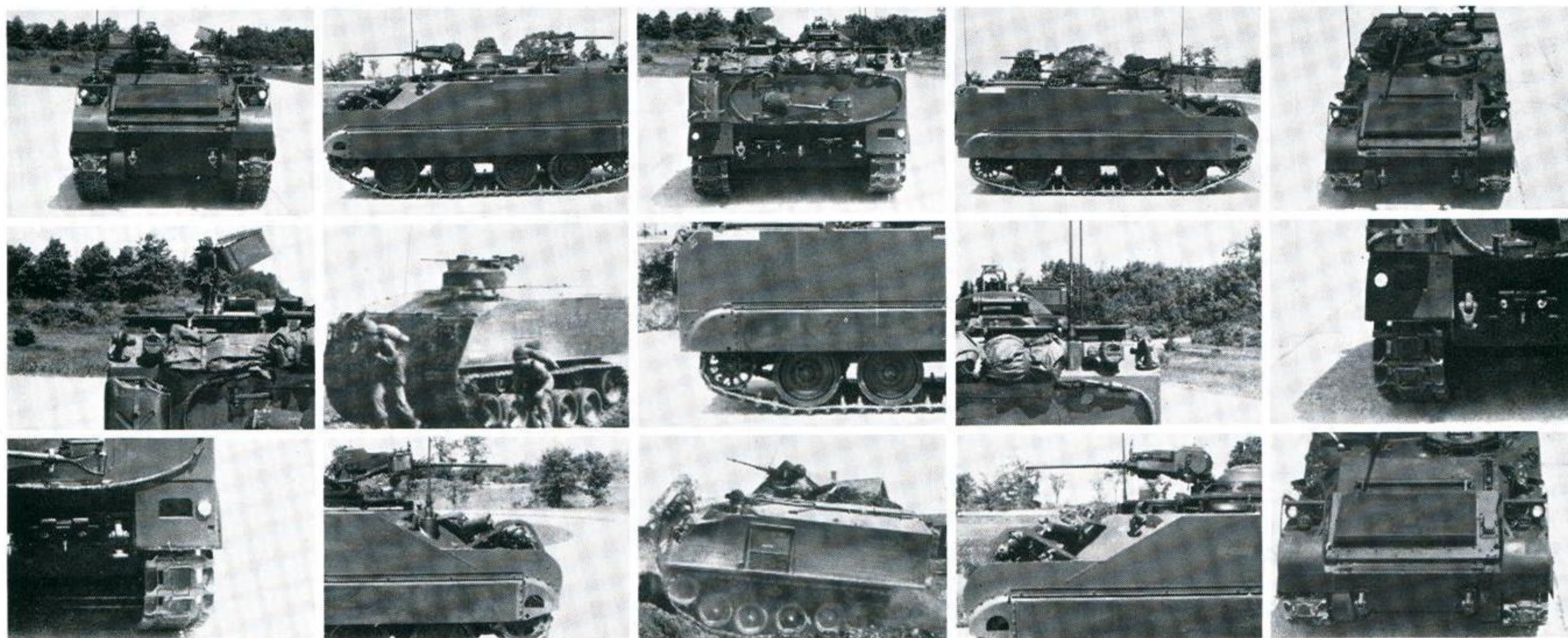
GNAT TRAINER?



BELFAST?



LYNX RECONNAISSANCE CARRIER?



LESSON INSTRUCTIONS

Identity training is a matter of "doing", rather than of gathering information. Submit to the instructions given below in every edition of the *Journal* and your ability to identify will become automatic.

- 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. The procedure will take care of that. Do not attempt to do a lesson without the key too soon, wait until your ability to do so is self-evident.

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.



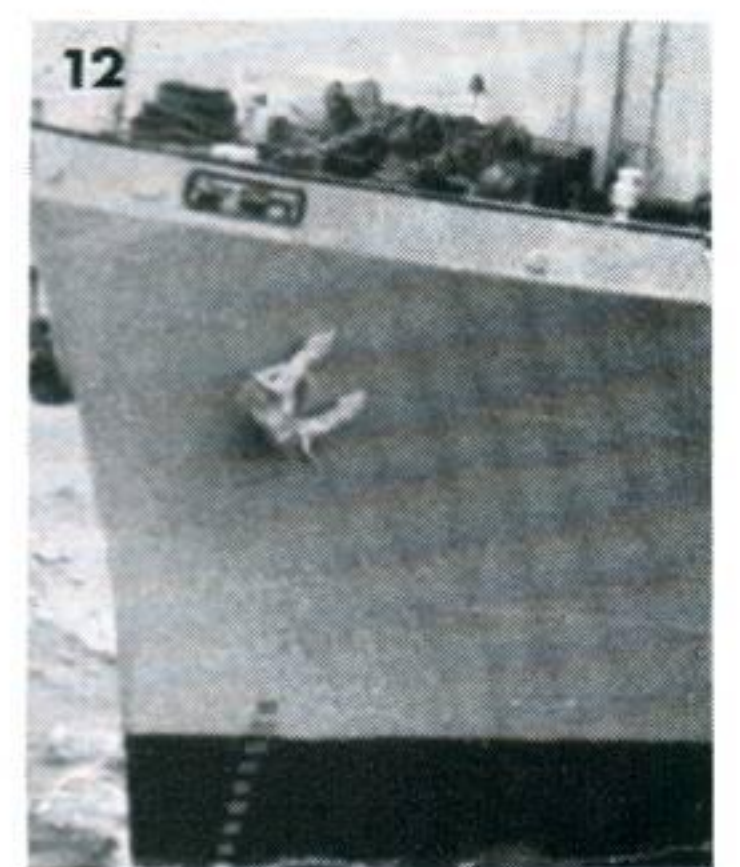
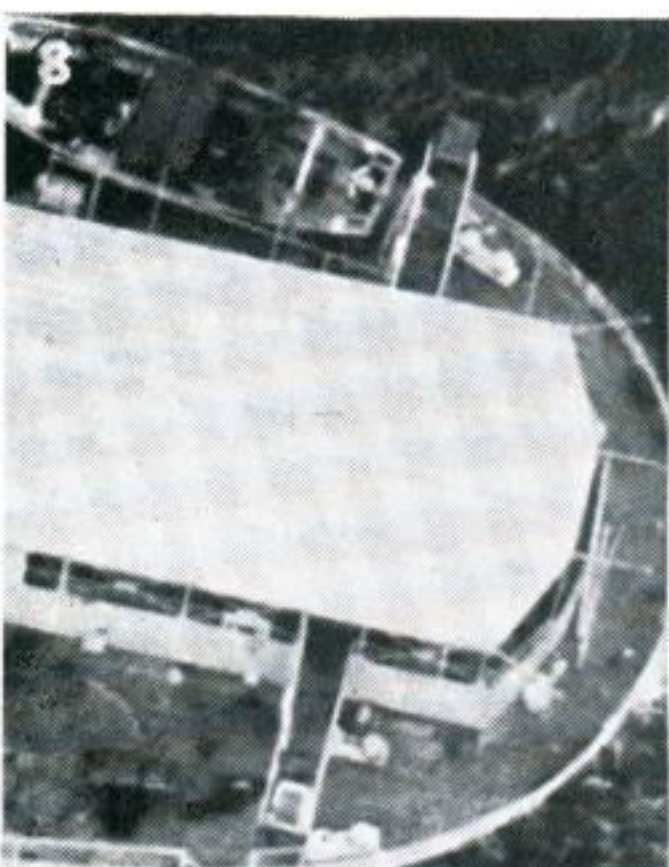
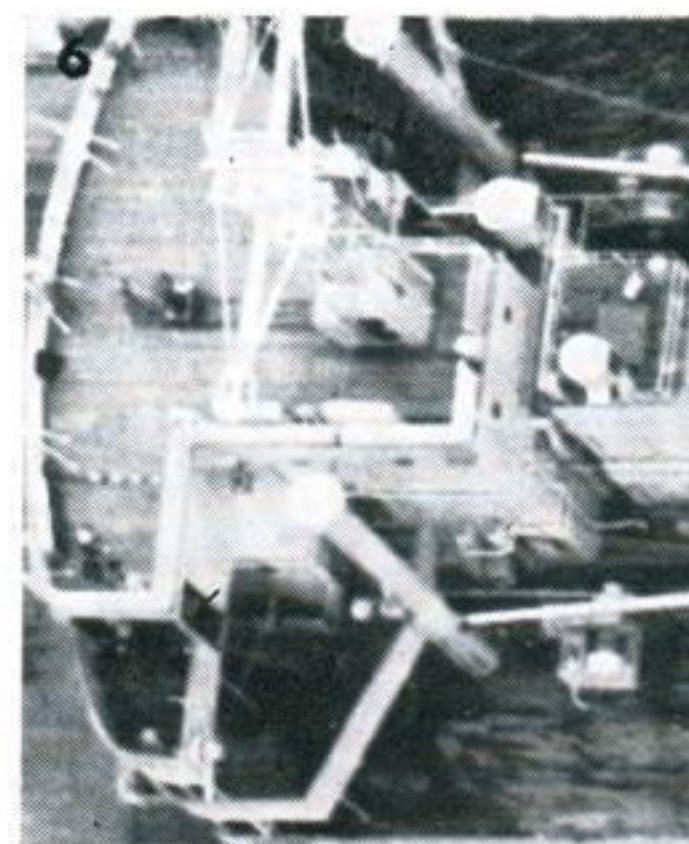
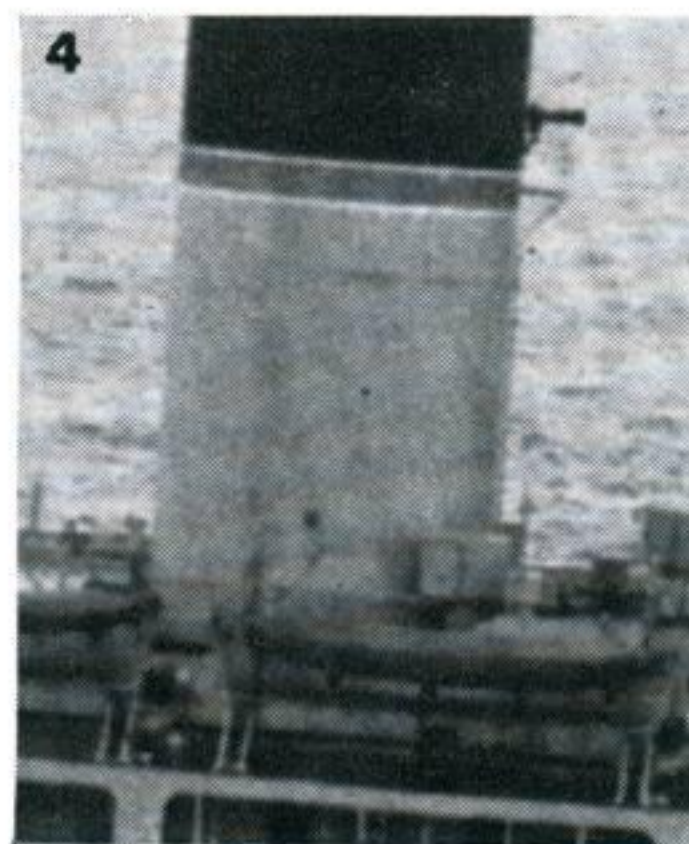
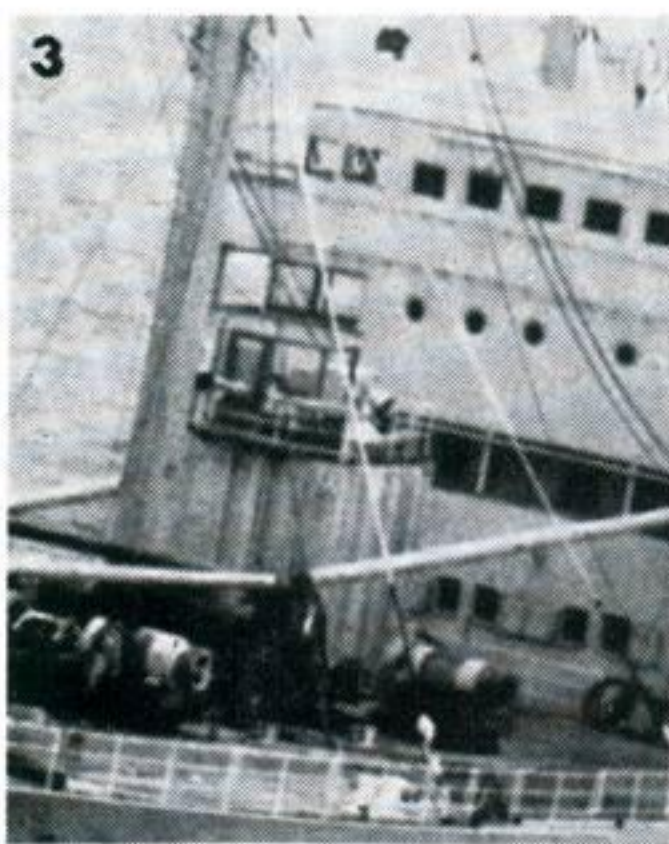
RFA RESURGENT

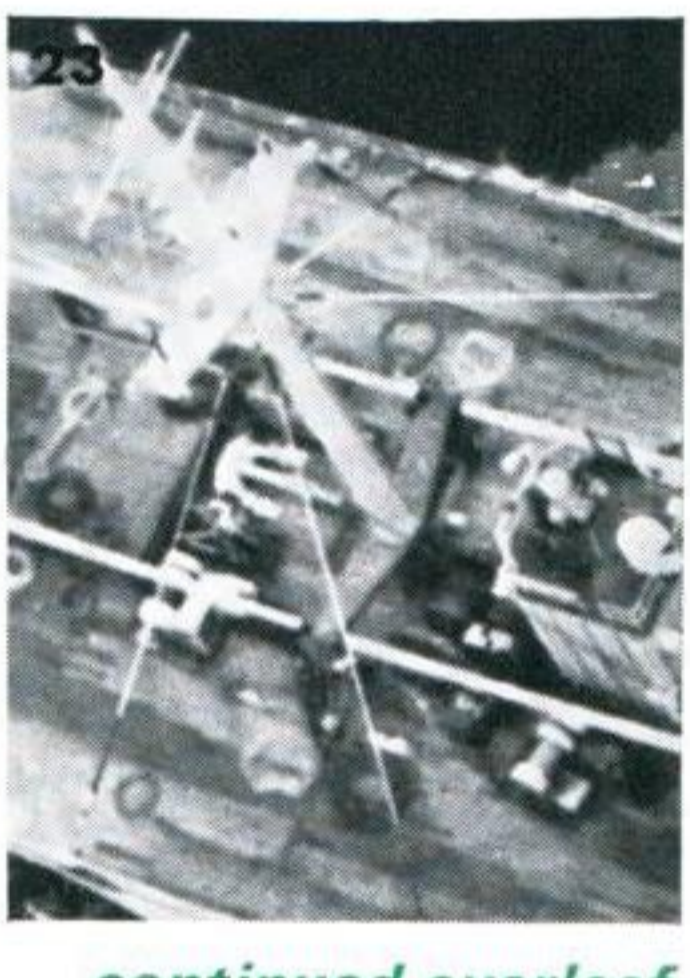
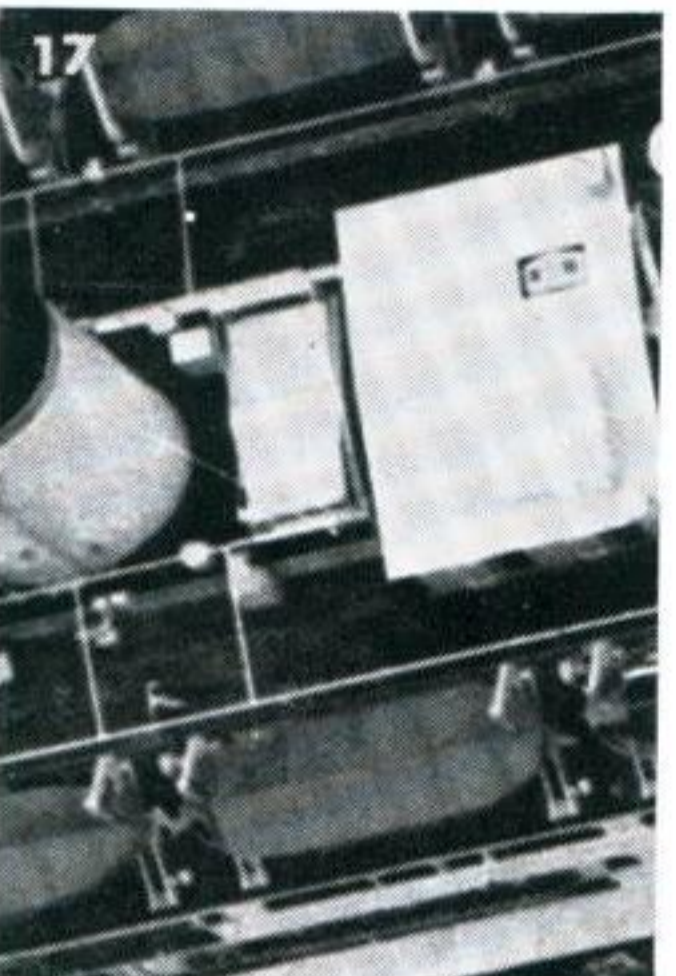
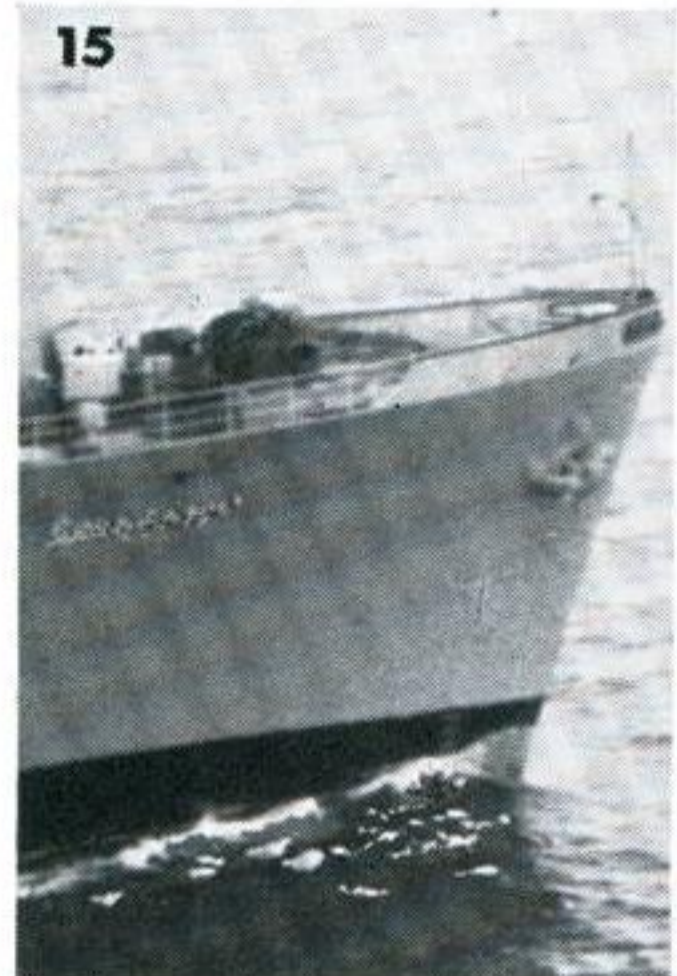
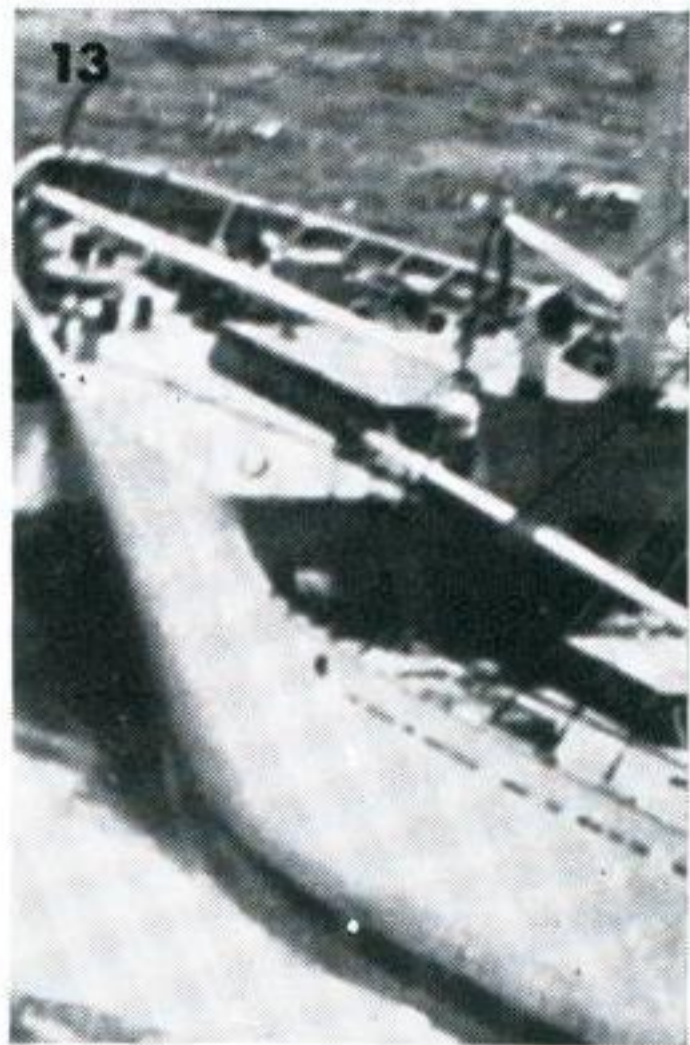
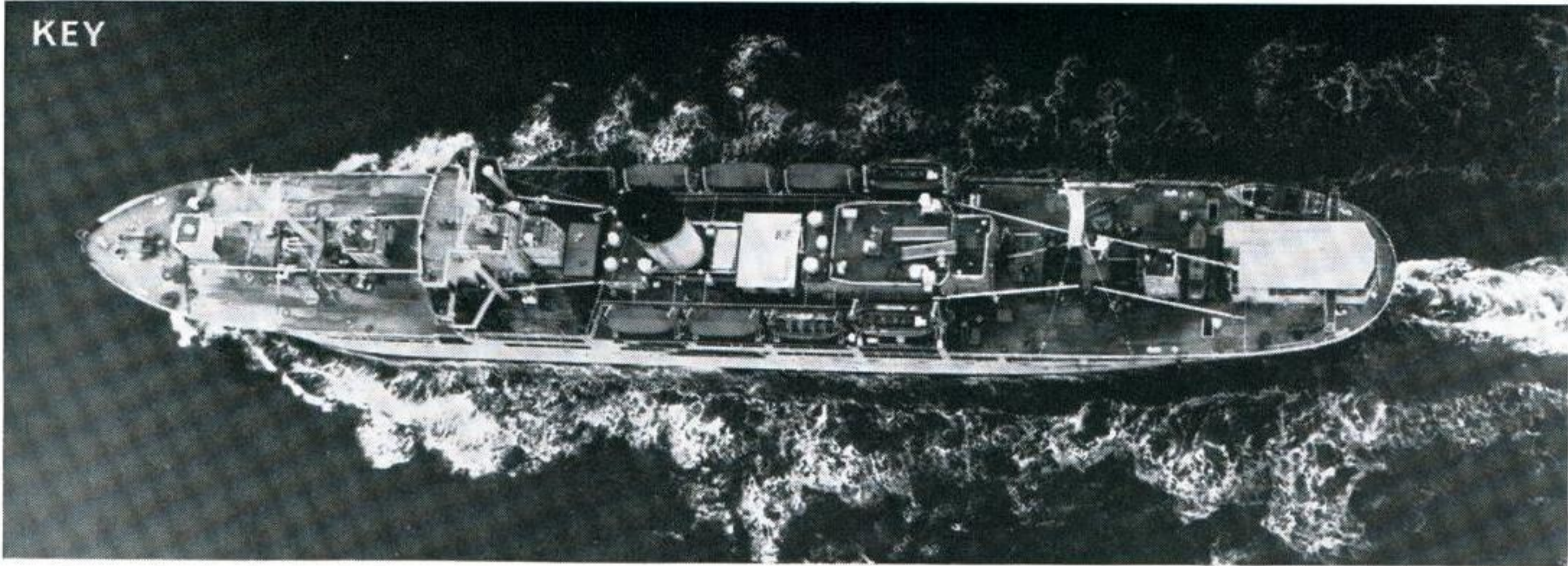
RFA *Resurgent* and her sister ship *Retainer* are fleet replenishment ships used principally for armament support. As their distinctive "merchantship" appearance suggests, they were converted from cargo passenger liners.

Apart from the lengthening of the forecastle deck, the built up bridge with a lattice-work signal mast and the flight deck on the poop deckhouse, the ships have

undergone little external modification from their basic merchantship design.

The *Resurgent* has greatly increased stores capacity and cargo handling gear as well as lifts for naval stores. She was built in 1951 by Scott's Shipbuilding Co., Greenock; she is a single-screw motorship with an average speed of 15 knots. The ship is of 14,000 tons displacement (9,355 tons gross), 477 feet overall length and 29 feet maximum draught. The complement is 107.





Lesson instructions are on page 145 Solutions on the back cover continued overleaf

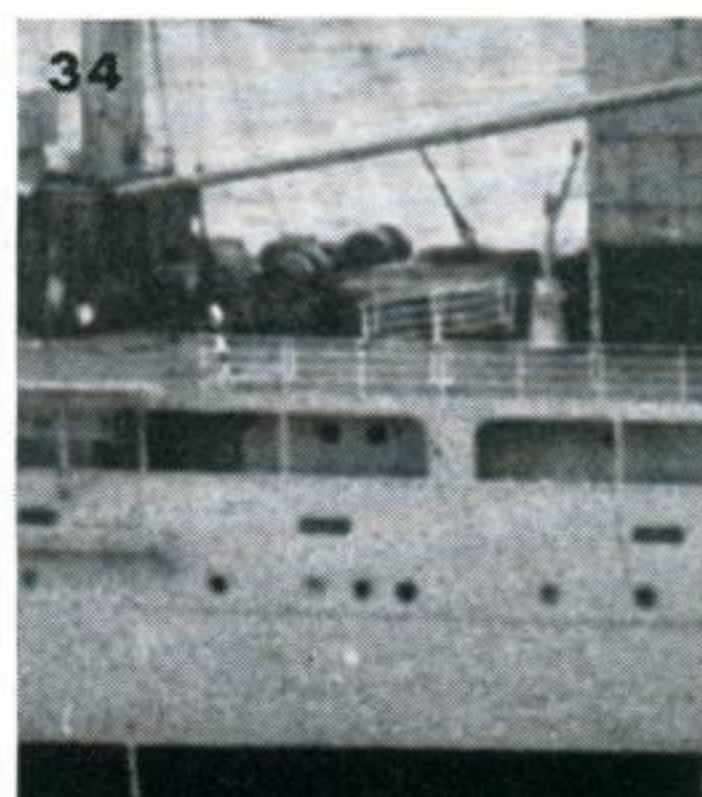
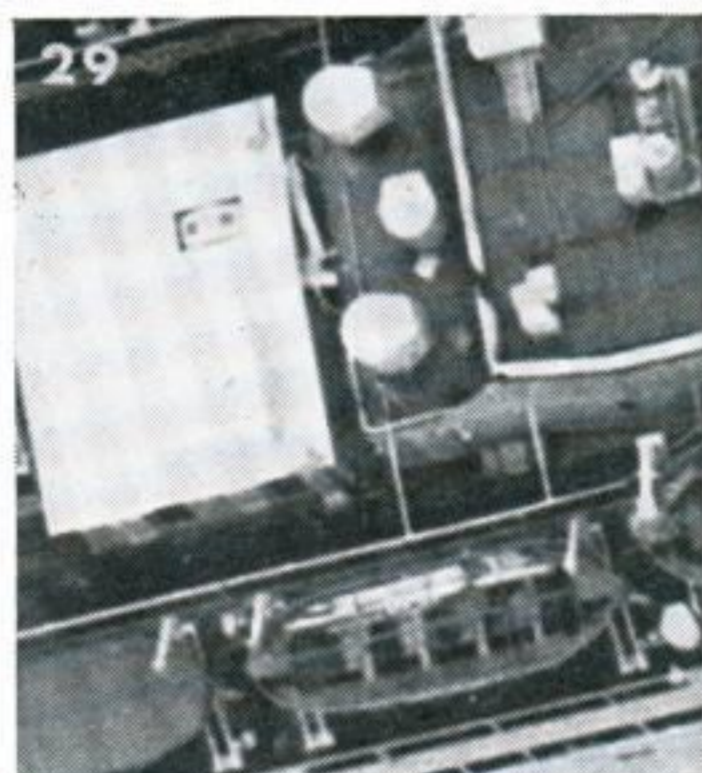
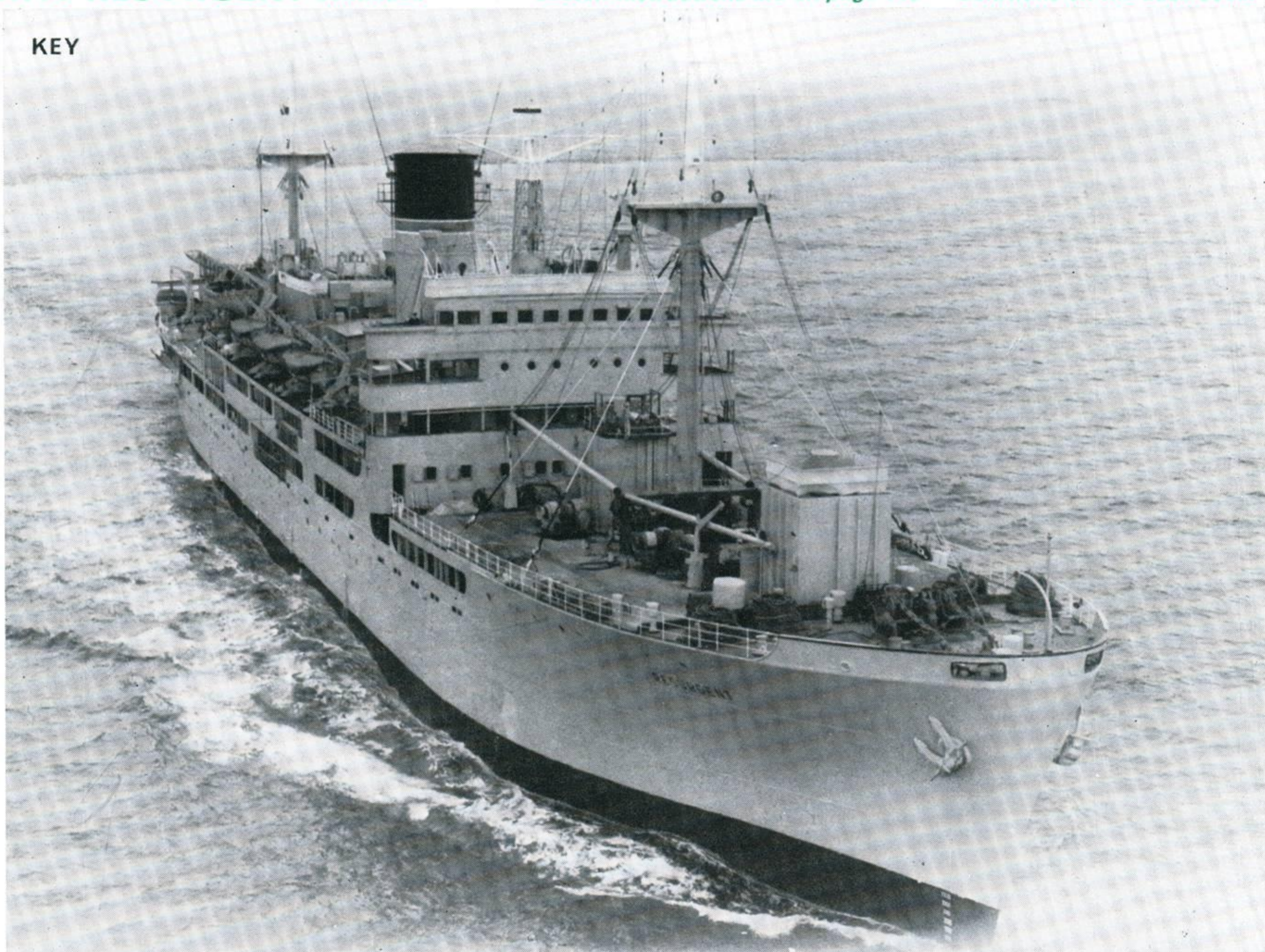


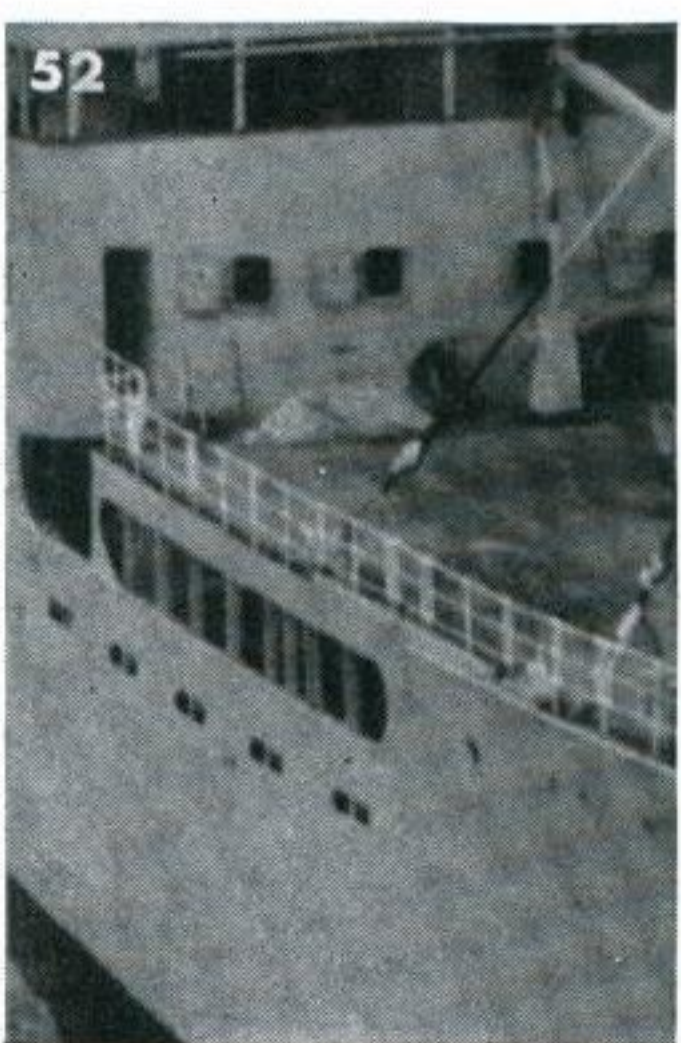
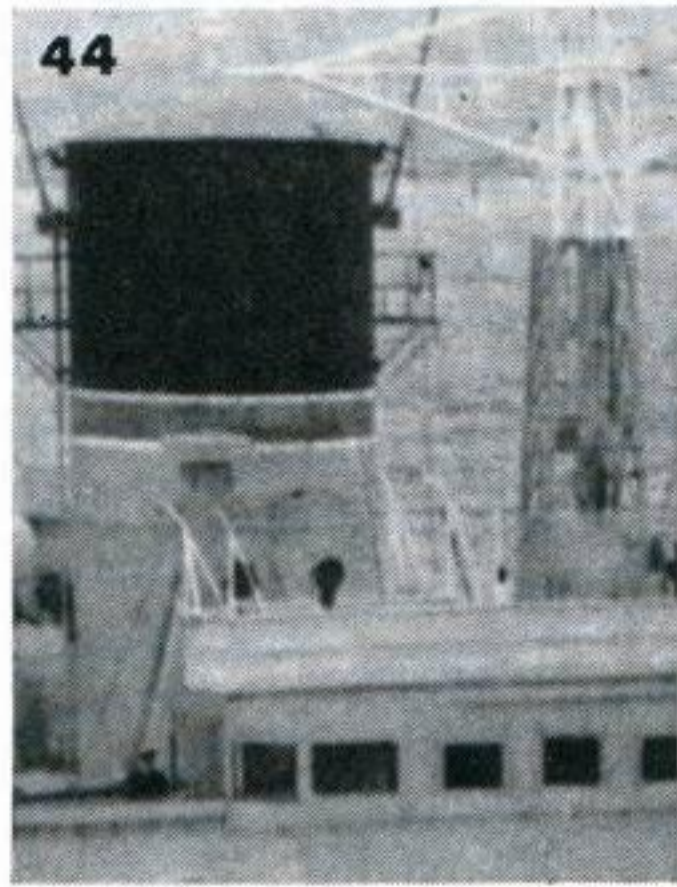


RFA RESURGENT *continued*

Lesson instructions are on page 145 Solutions on the back cover

KEY







KEY

HS 125/DOMINIE T. Mk. 1

The Hawker Siddeley 125 light executive transport was built as a private venture and first flew in August 1962. Designed as a jet successor to the Dove, it is powered by two Rolls-Royce Viper engines and is in service with civil operators world wide. Several variants exist, including the HS 125 Series 2 better known as the Dominie T.1 advanced navigation trainer of the RAF.

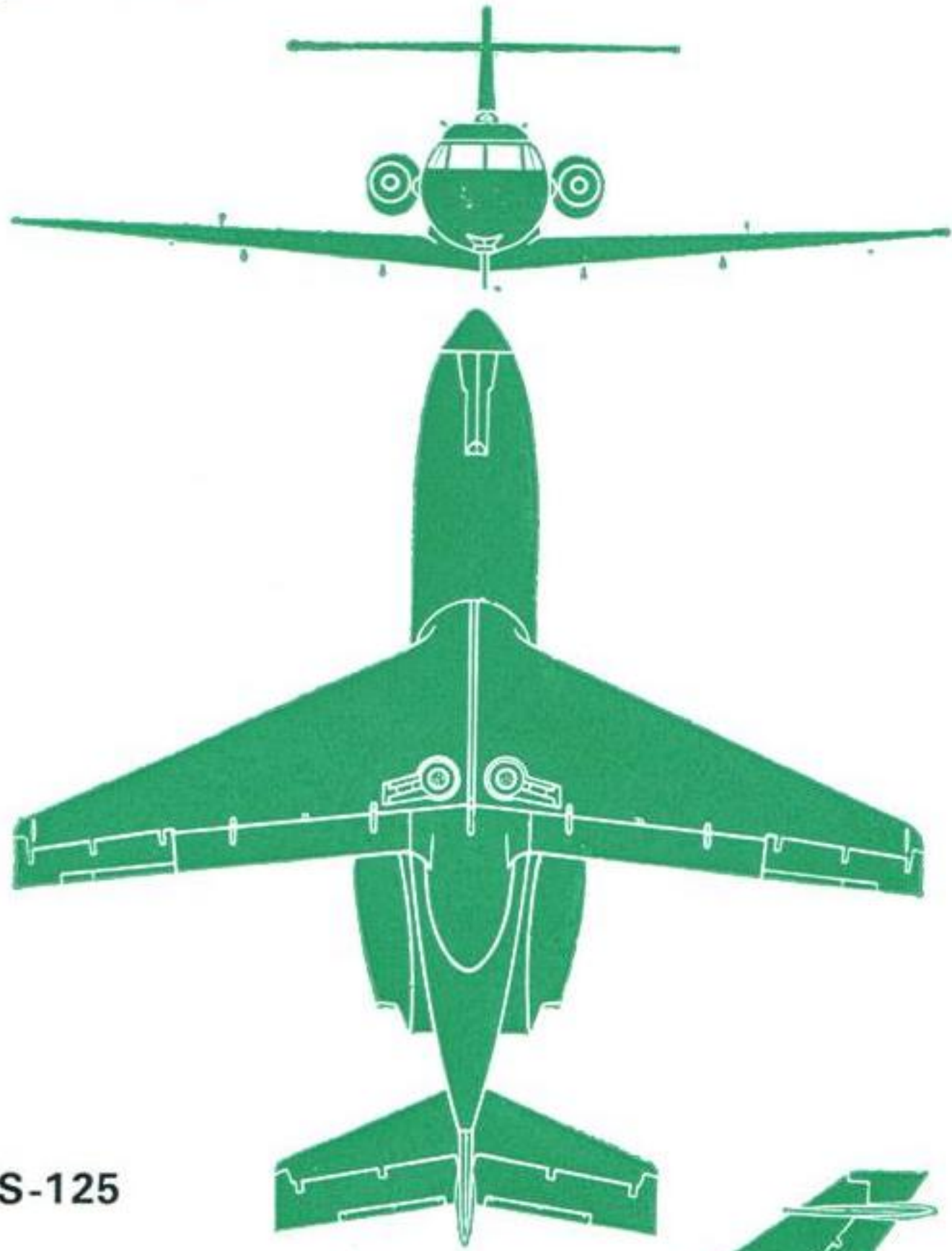
The Dominie, 22 examples of which have been delivered, differs from the civil 125 in having an extended wing root fairing—a ventral bulge—which accommodates the Doppler navigation system aerials. The interior is laid out for two pilots, navigation instructor, two pupils and a supernumerary.

continued overleaf

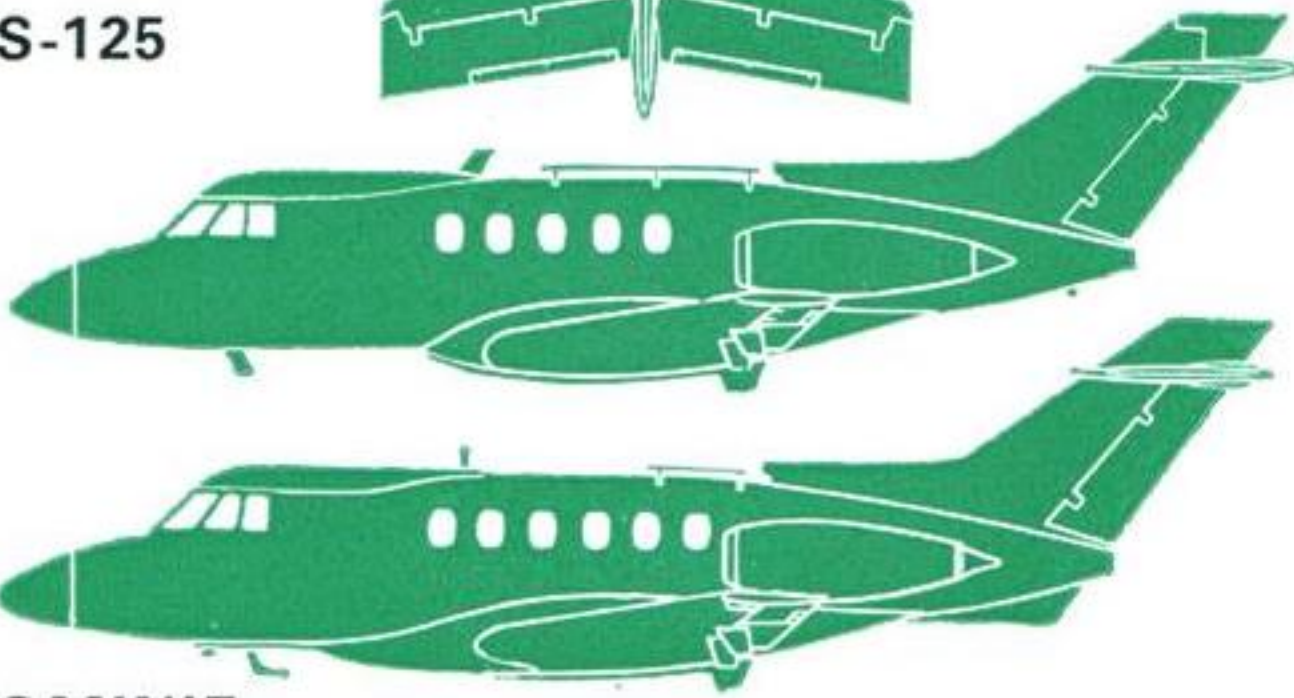


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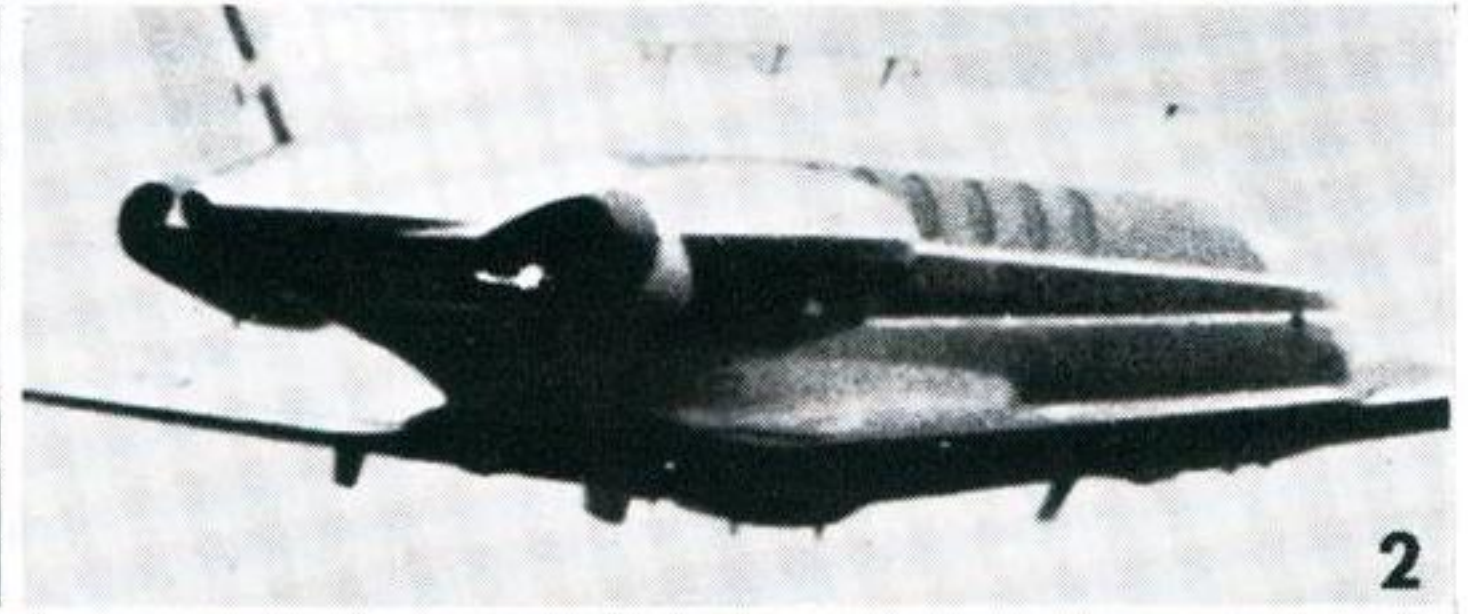
Span 47 feet



HS-125



DOMINIE



Lesson instructions are on page 145 Solutions are on the back cover



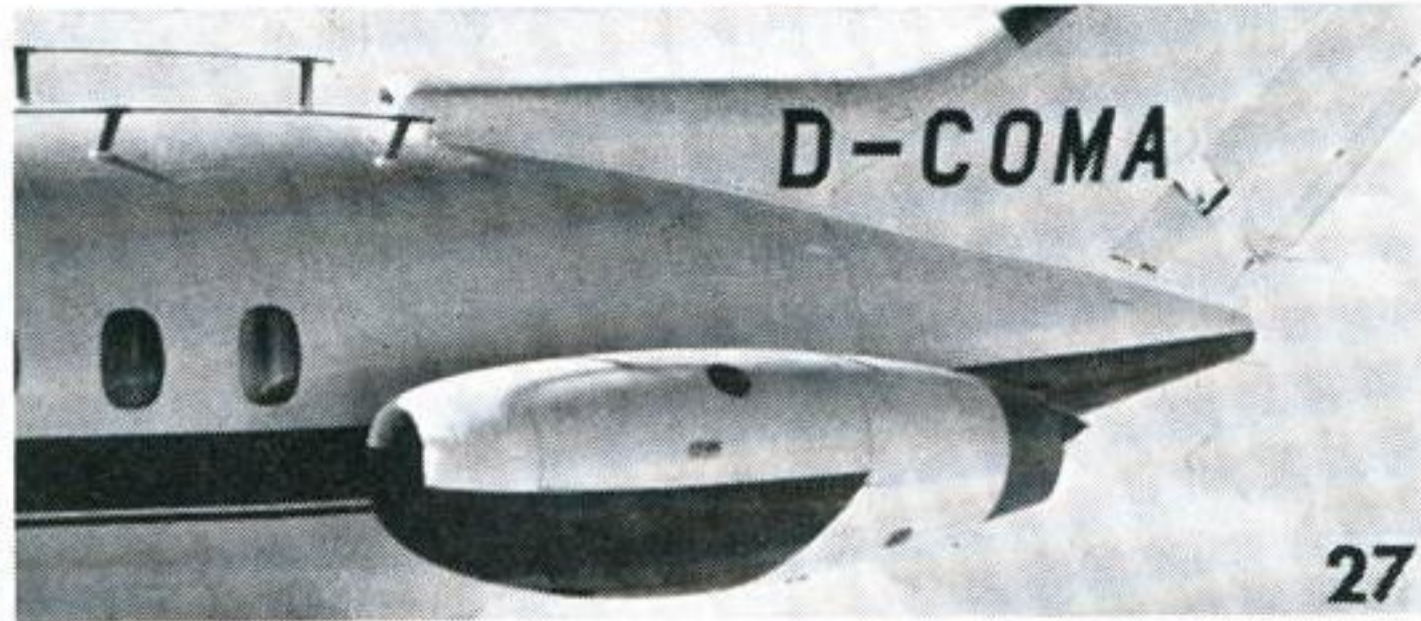
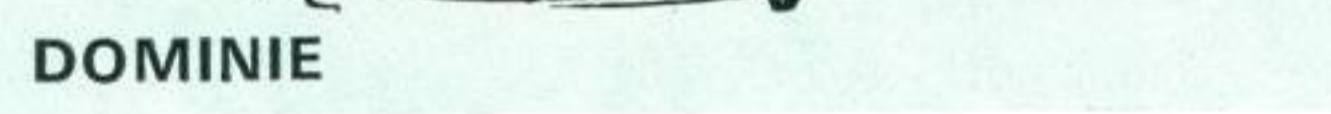
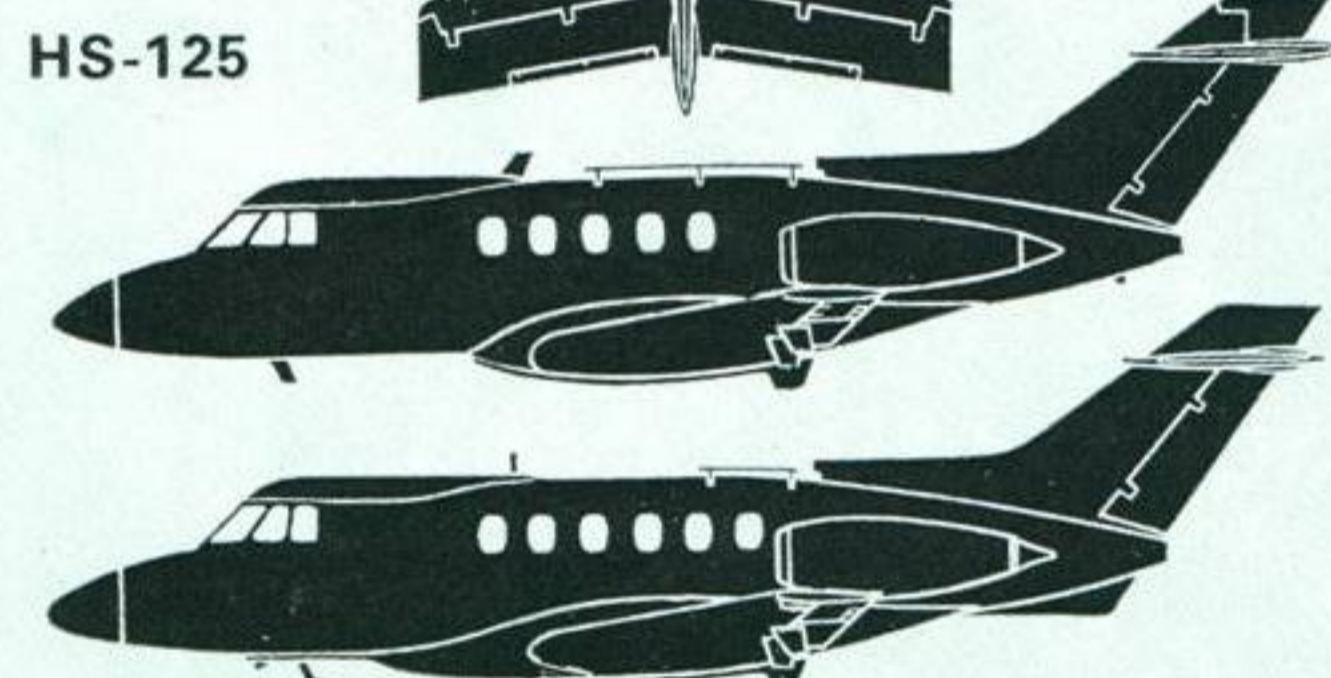
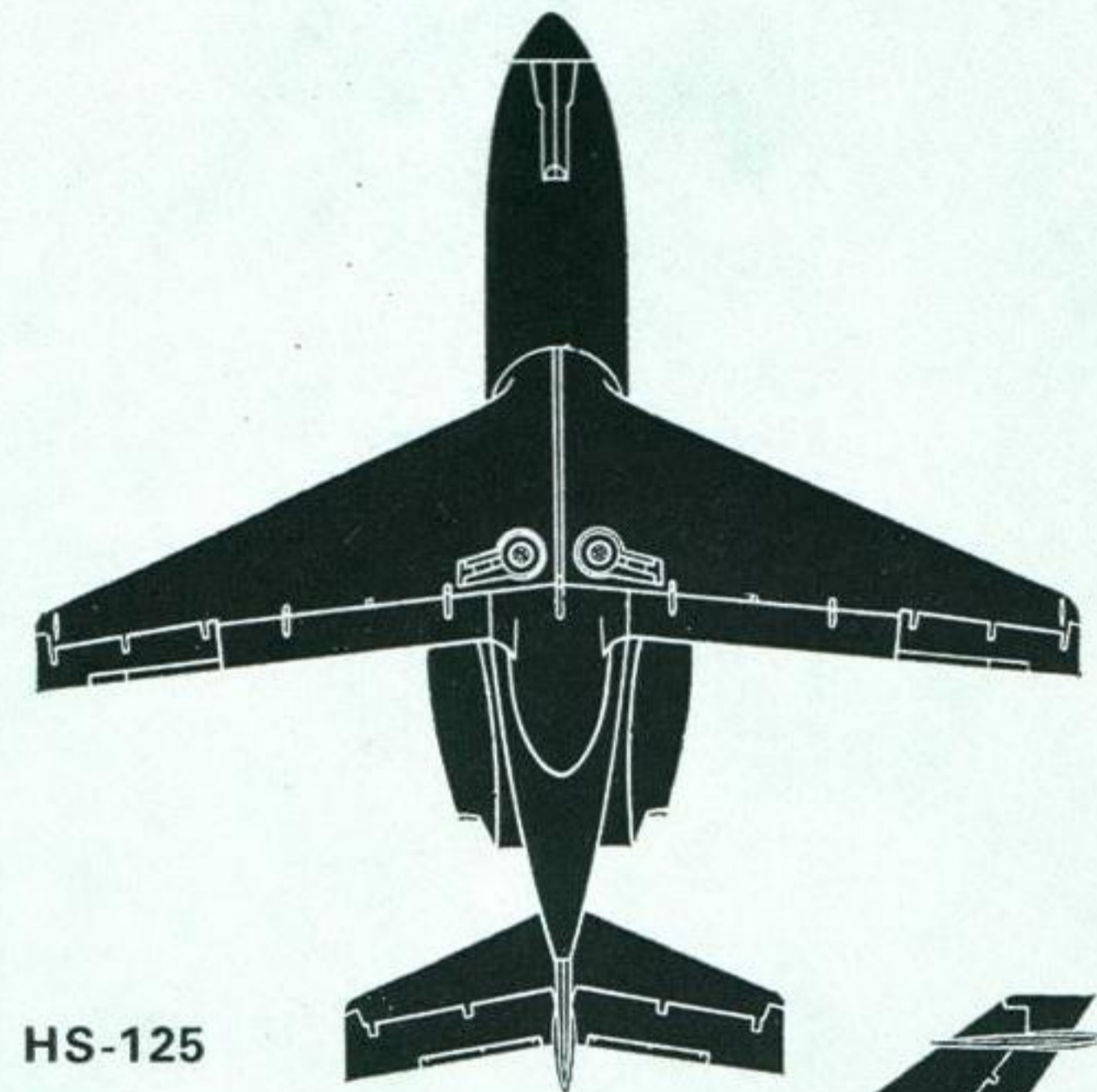
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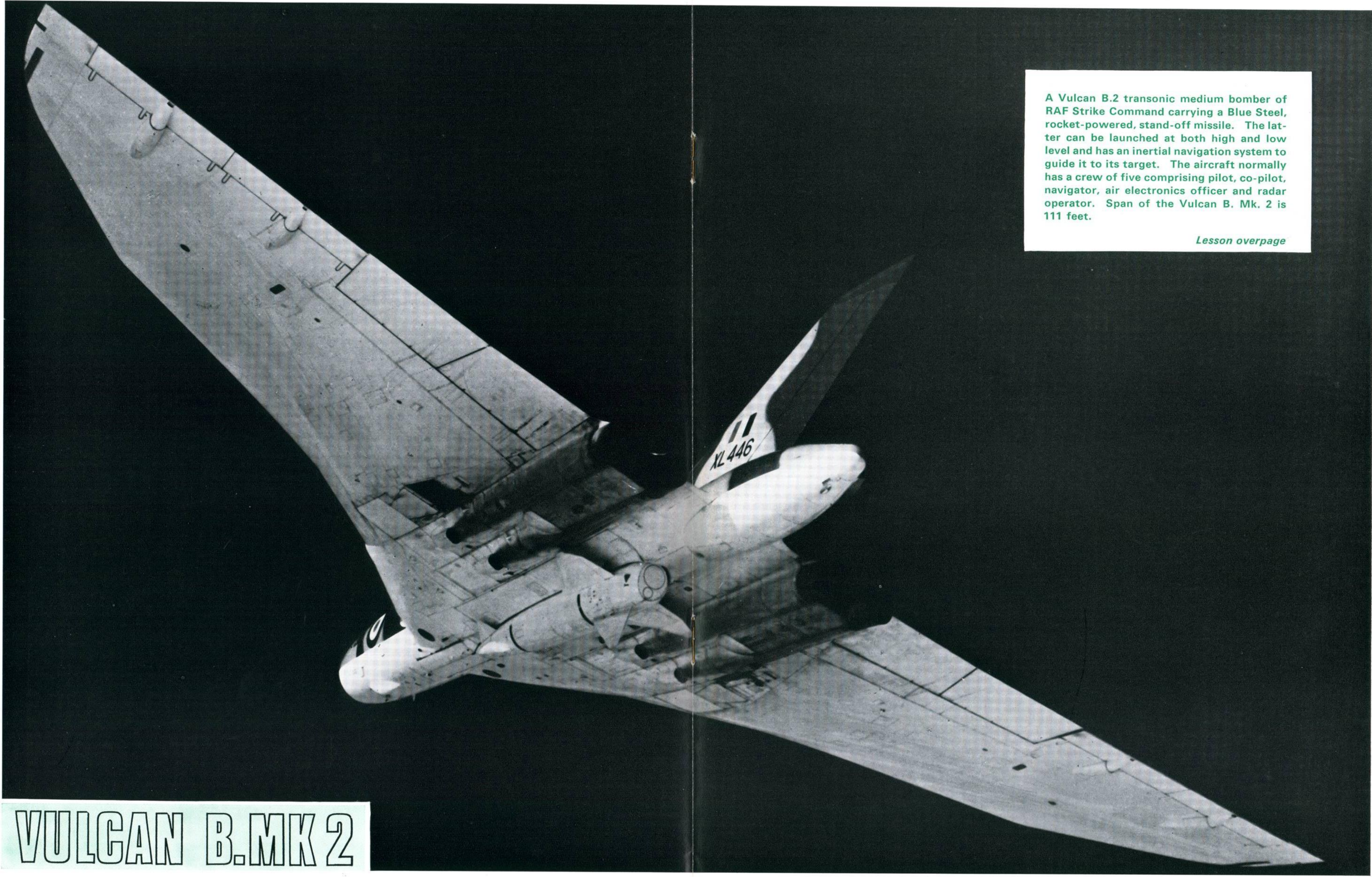


HS 125/DOMINIE T. Mk. 1 *continued*



The HS 125/Dominie is very similar in layout to many other light twin jets so it needs to be well learned. To do this read the instructions on page 145 and report all targets as HS 125—or otherwise if jokers—and check your answers with the solutions given on the back cover after identifying all the targets.





A Vulcan B.2 transonic medium bomber of RAF Strike Command carrying a Blue Steel, rocket-powered, stand-off missile. The latter can be launched at both high and low level and has an inertial navigation system to guide it to its target. The aircraft normally has a crew of five comprising pilot, co-pilot, navigator, air electronics officer and radar operator. Span of the Vulcan B. Mk. 2 is 111 feet.

Lesson overpage

VULCAN B.MK 2



VULCAN B. Mk. 2

The Hawker Siddeley Vulcan B.2s of RAF Strike Command carry the Blue Steel stand-off air-to-ground missile and can fly at very high level or at very low level beneath enemy radar. Blue Steel, which partly fits into a recess in the belly of the aircraft, is powered by a rocket motor and guided by a self-contained inertial navigation system, and its programmed trajectory

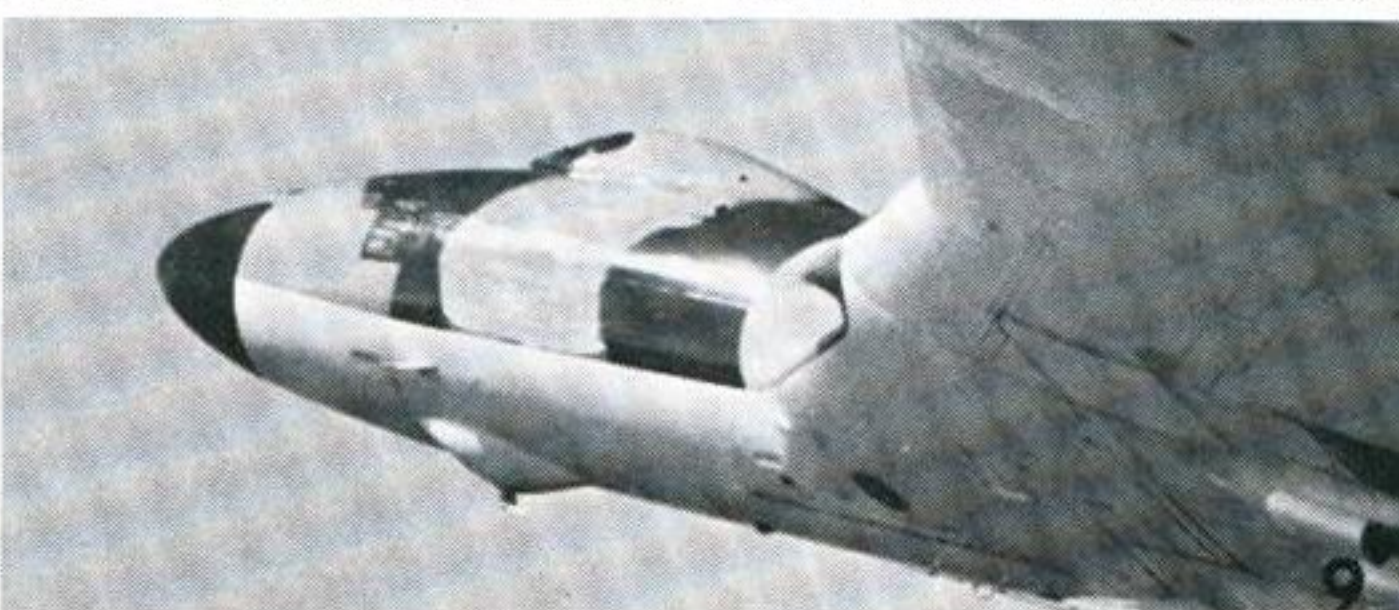
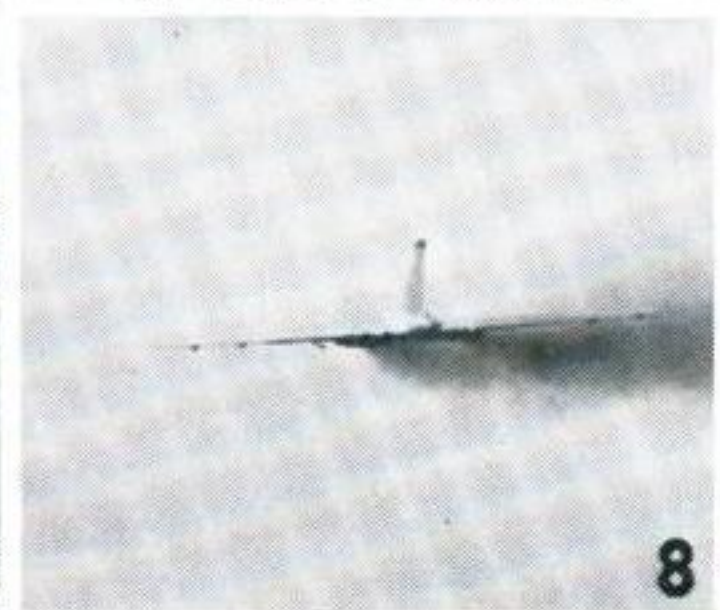
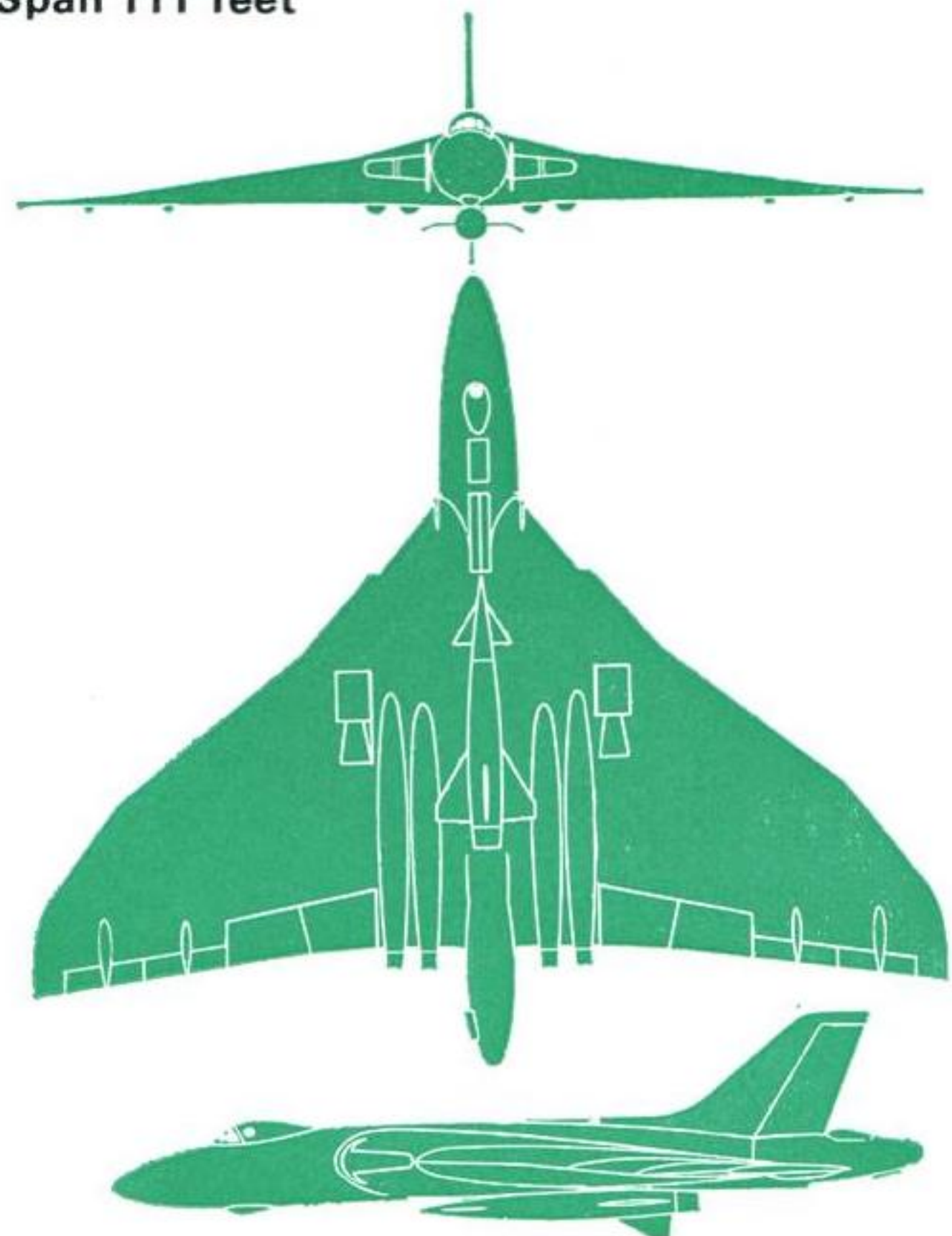
would present an extremely difficult target to enemy defensive systems.

Developed from the Vulcan B.1, the world's first large delta-wing bomber, the Vulcan B.2's configuration gives a unique combination of load-carrying capabilities, high subsonic speed, and long range.

Lesson instructions are on page 145 Solutions on the back cover

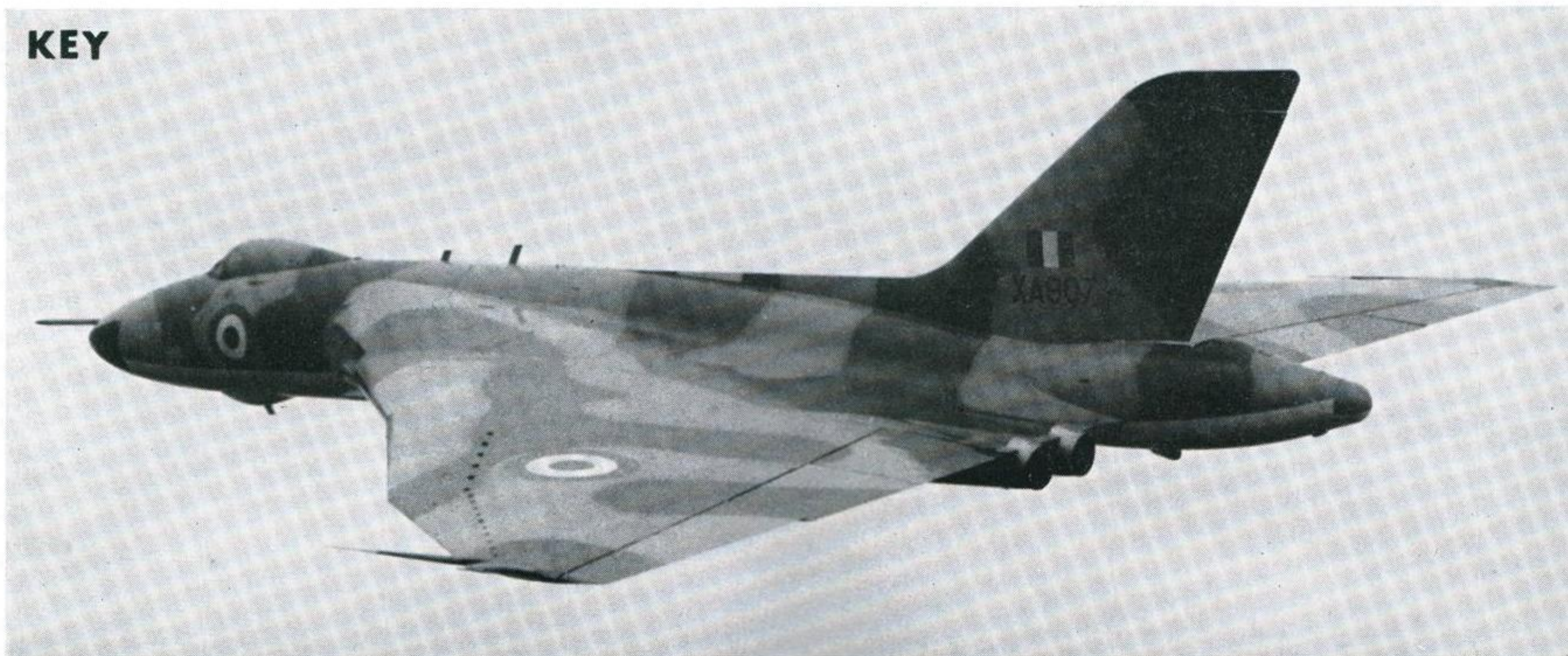


Span 111 feet

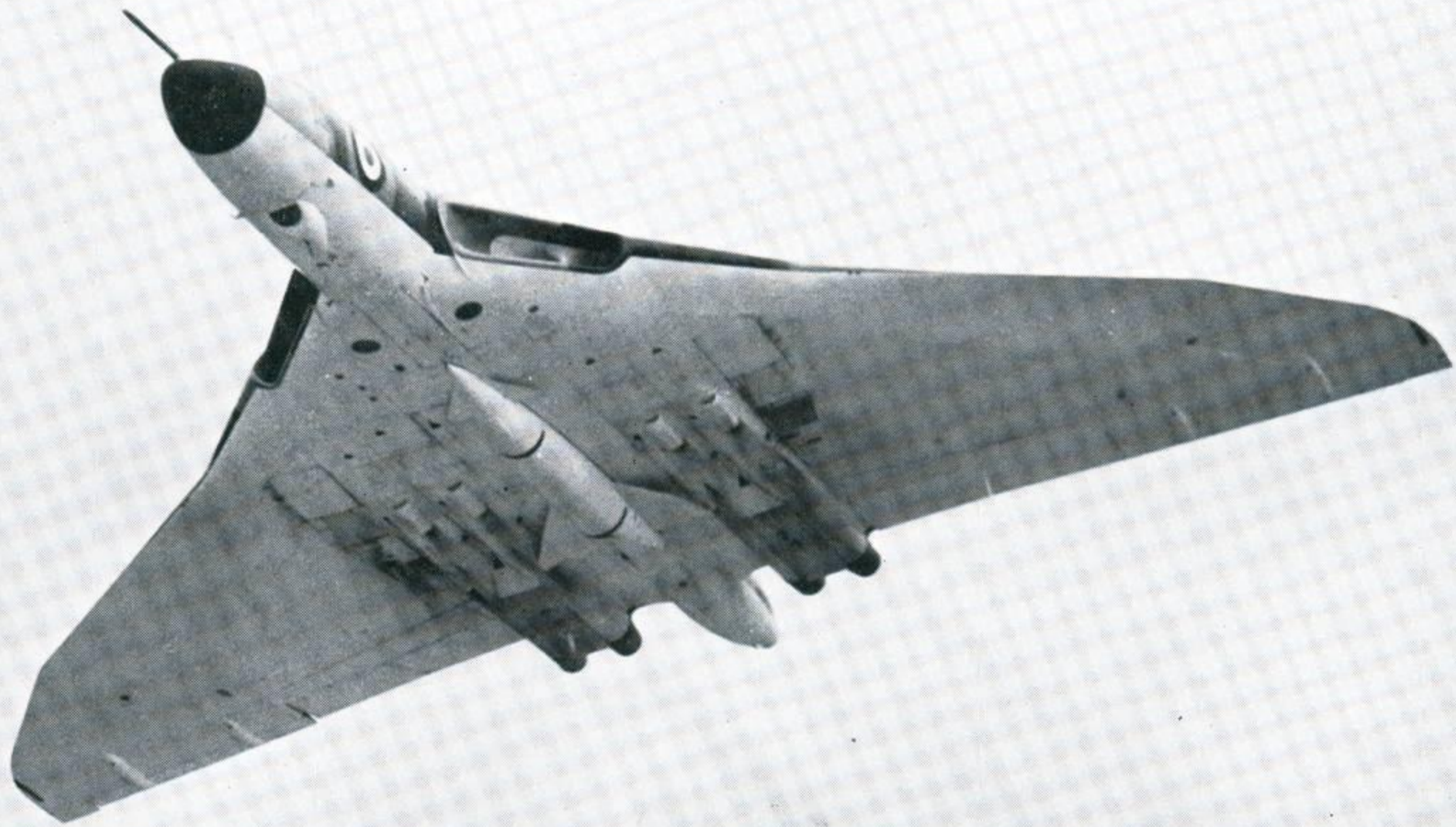


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KEY



KEY



VULCAN B. Mk. 2 *continued*



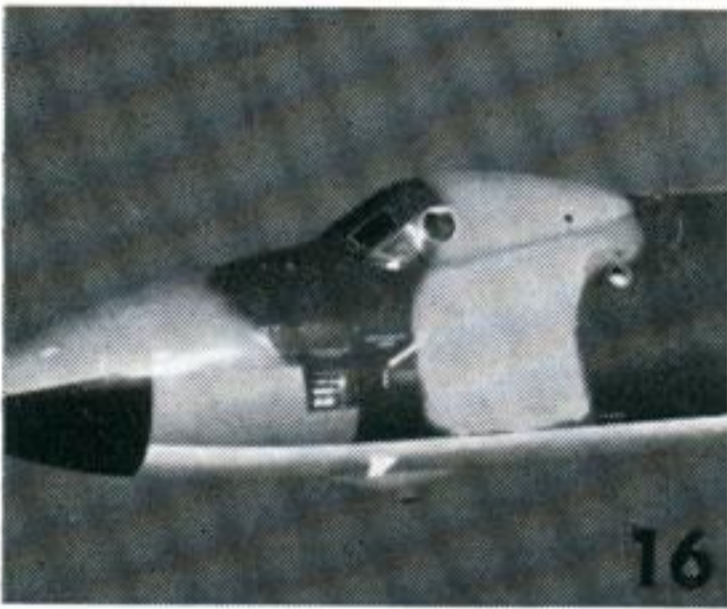
13



14



15



16



17



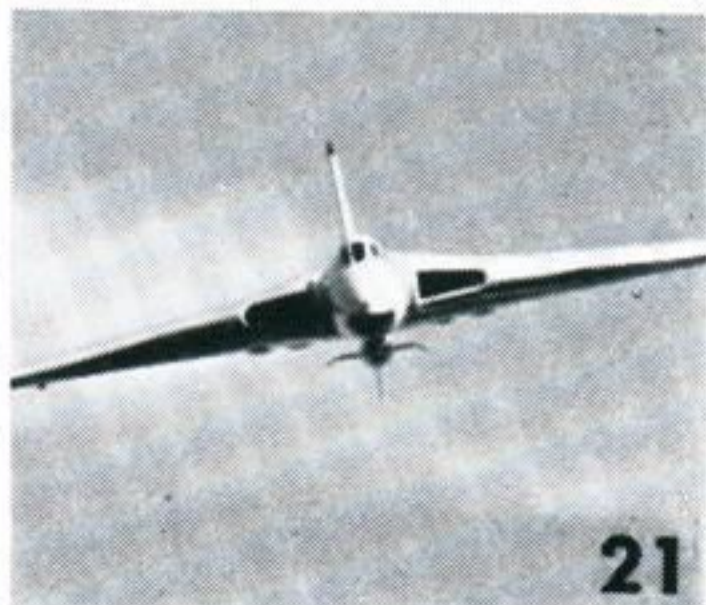
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20



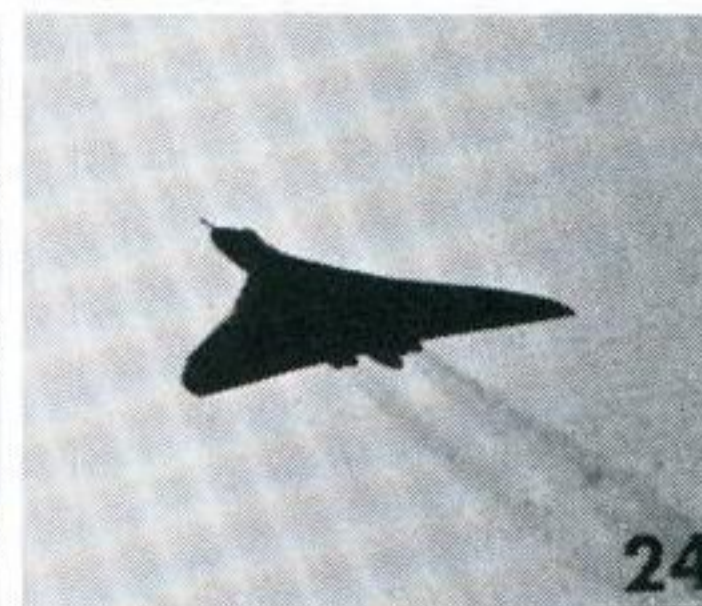
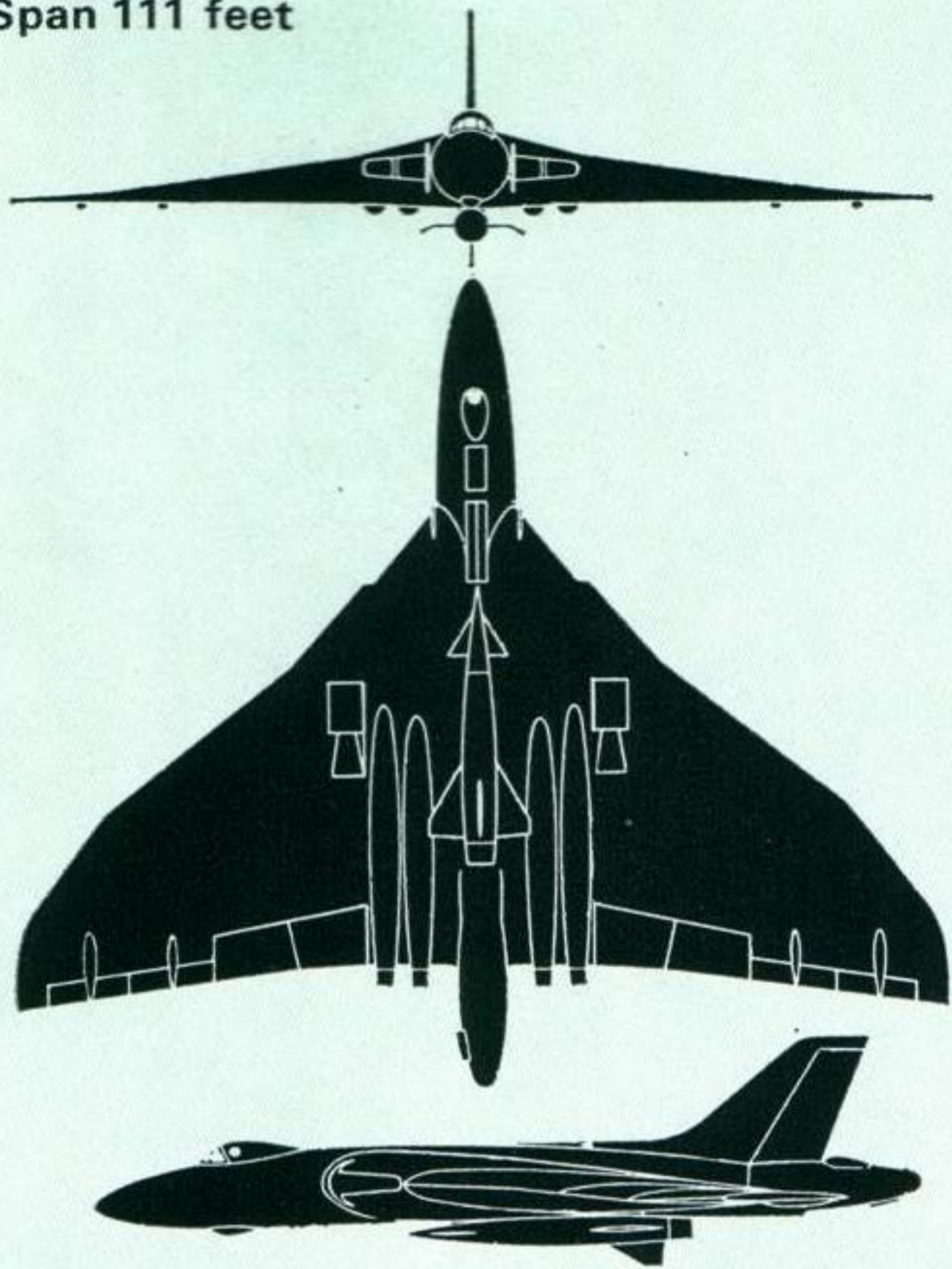
19



21

The B.2 is powered by four 20,000 lb thrust Rolls-Royce Olympus turbo-jets and, like the Victor, can be refuelled in flight. To learn the Vulcan B.2 work to the instructions on page 145 and report all targets as Vulcan—or otherwise if jokers. Solutions on the back cover.

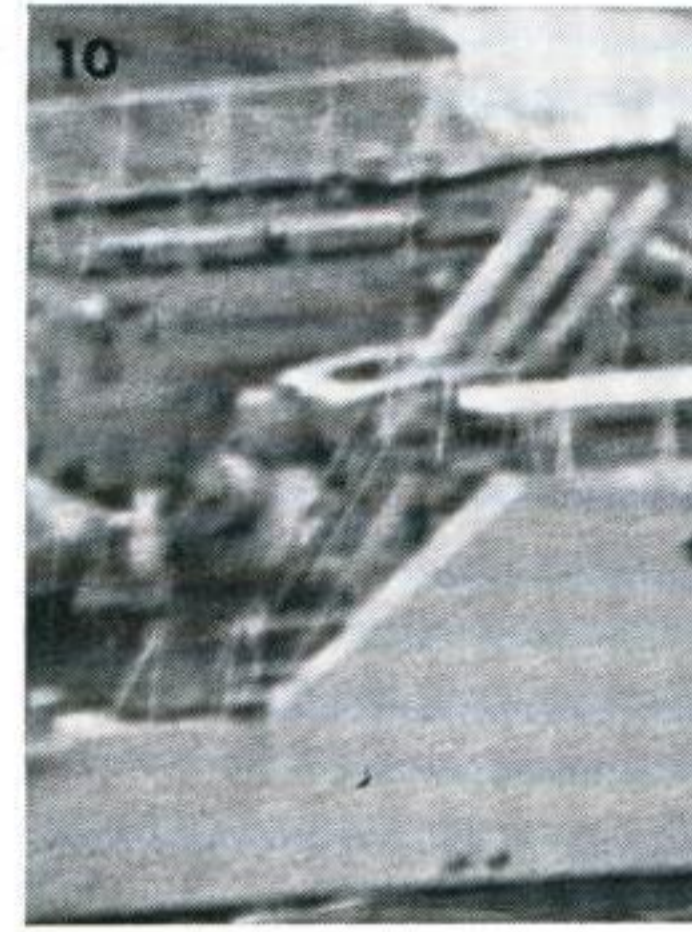
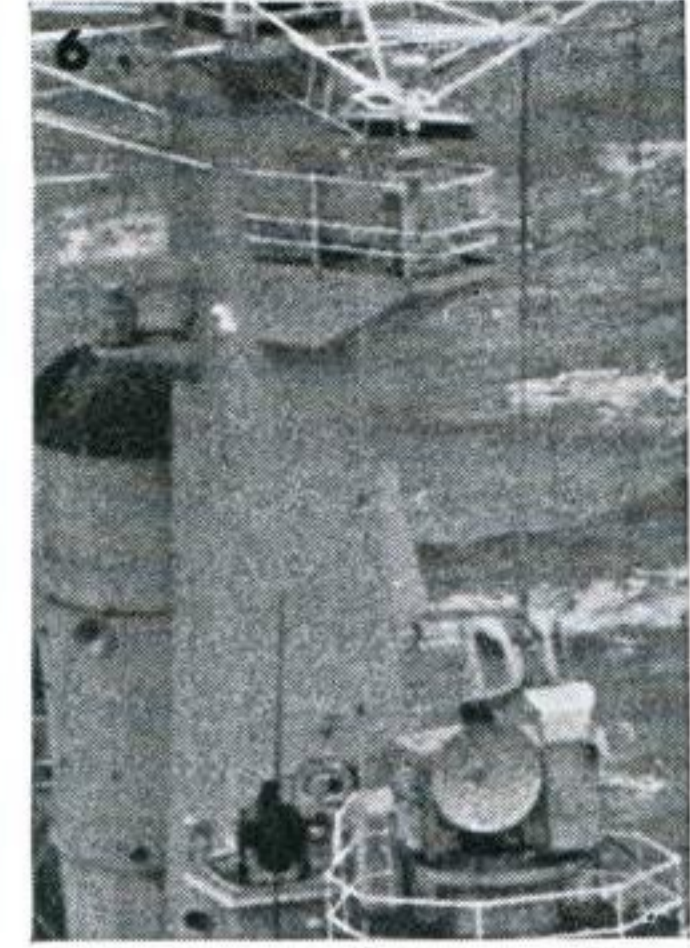
Span 111 feet



KEY







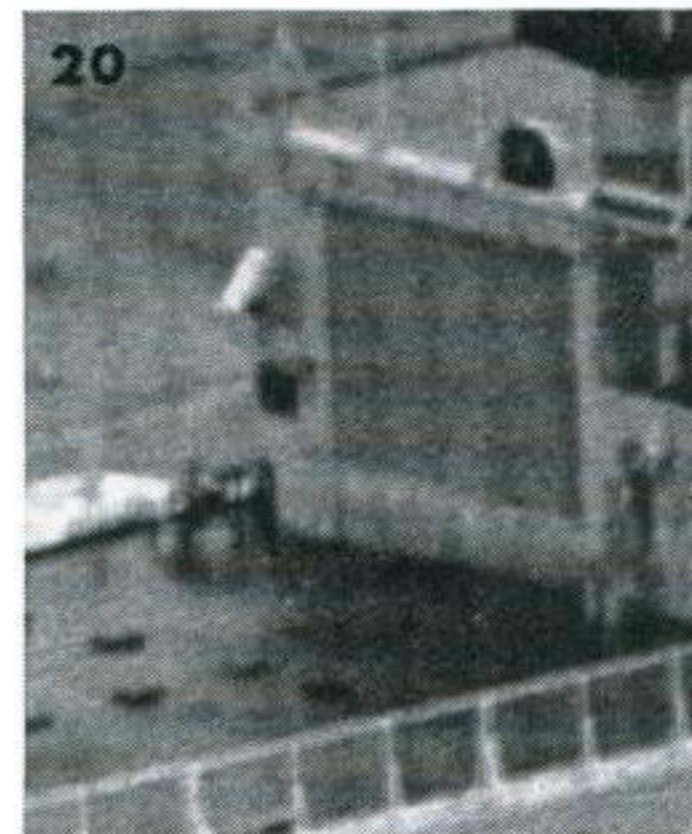
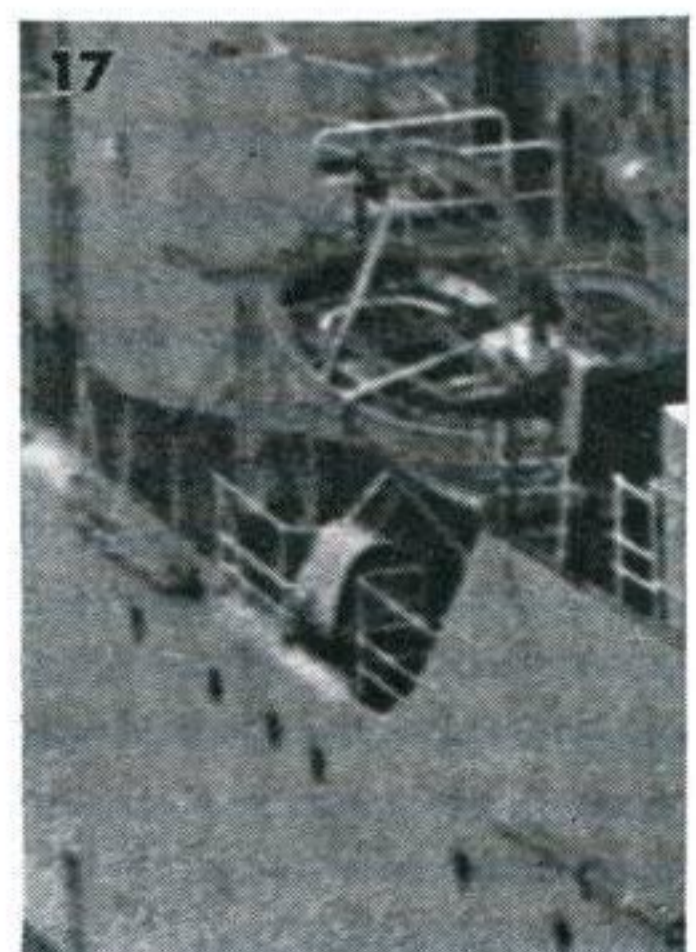
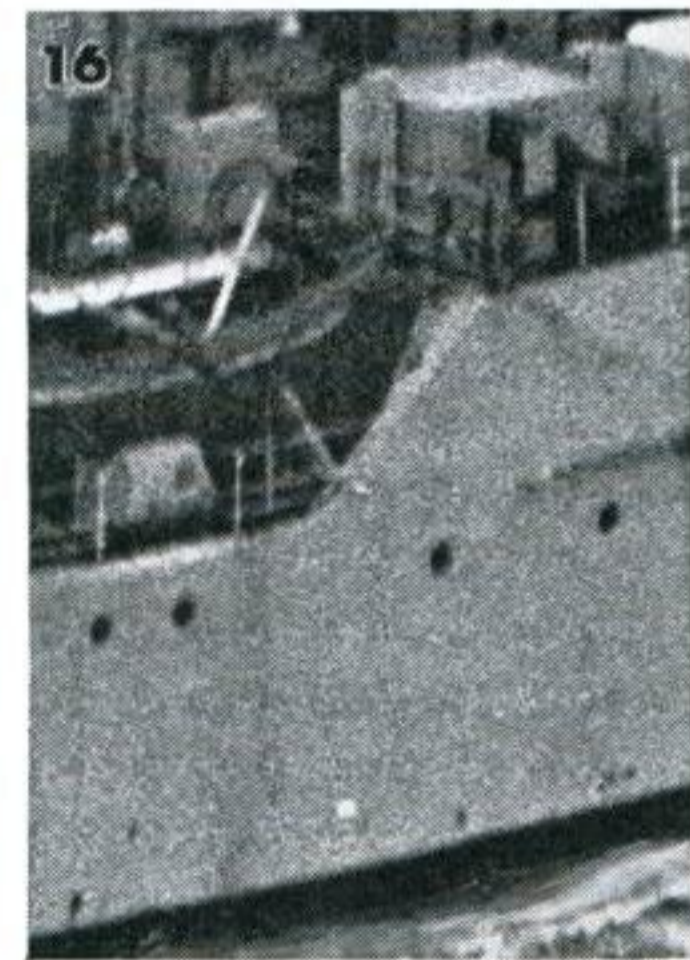
H M S ROTHESAY is the class ship of nine frigates. They are modified Type 12 anti-submarine frigates. The whole of the Rothesay class is gradually being converted to bring the ships into line, operationally speaking, with the "Leander" class frigates.

Rothesay was the first to undergo the reconstruction starting in 1966. At present, there are only two ships of the class fully converted. The others will be similarly dealt with in due course.

In appearance *Rothesay* looks rather "pushed aft", the enclosed mast coming dead amidships. She is

equipped with a Westland Wasp anti-submarine helicopter, the flight deck and hangar being abaft the funnel. One of the a/s mortars has been removed. The 40-mm. gun has been replaced by a Seacat launcher on the hangar.

Rothesay's standard displacement is 2,200 tons: overall length, 370 feet: draught, 17 feet. She is armed with two 4.5-in. A/A guns, one triple-barrelled DC mortar, and one Seacat surface-to-air missile Launcher. Twin screws, turbine powered, produce a top speed of 30 knots.



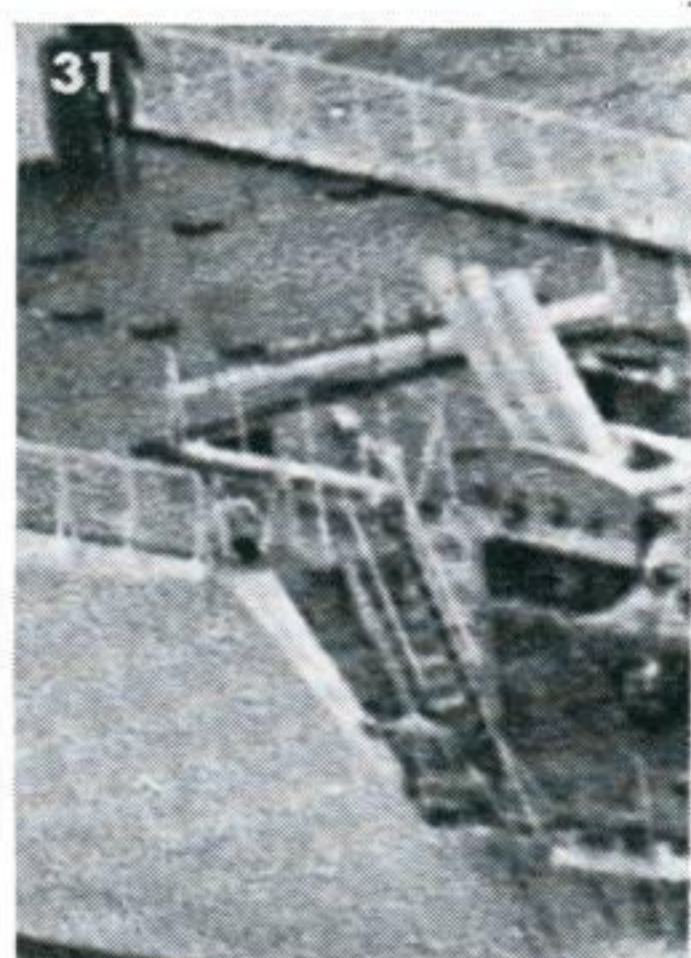
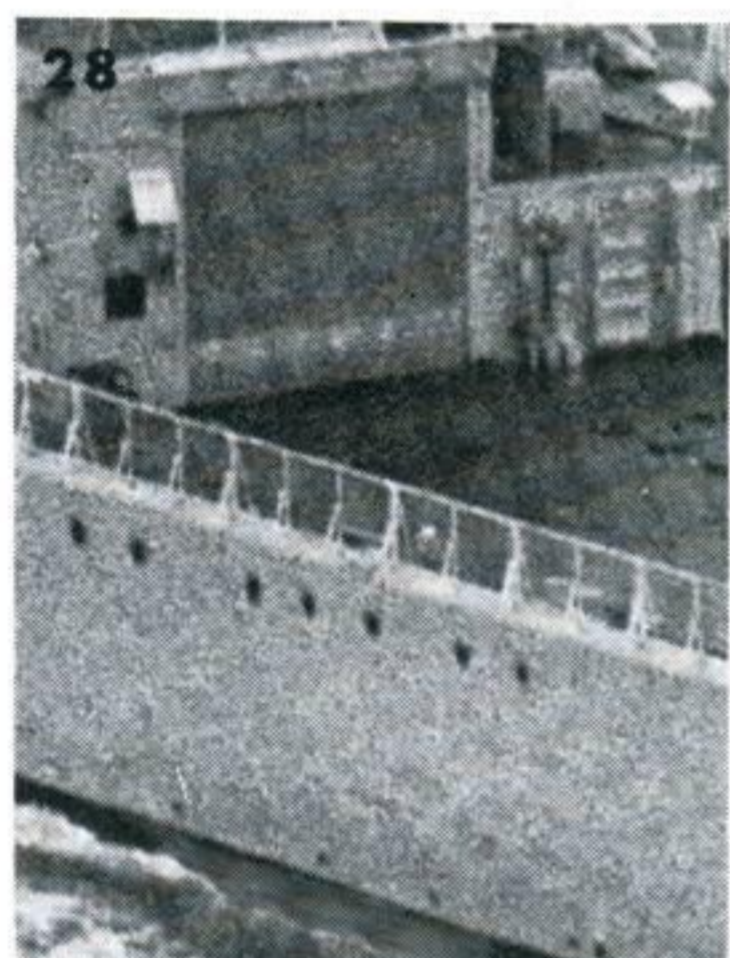
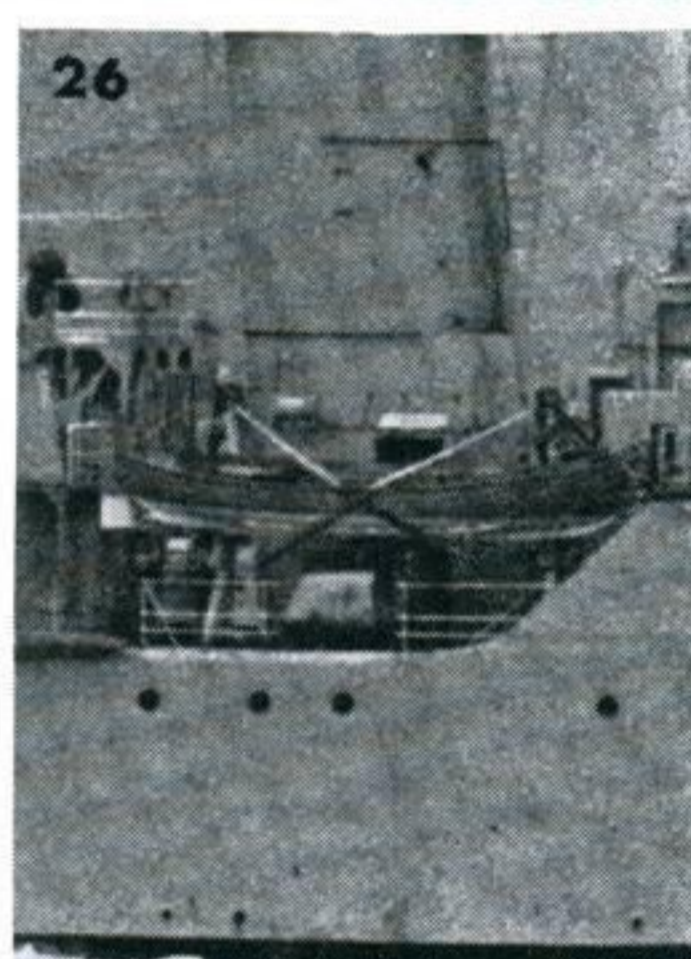
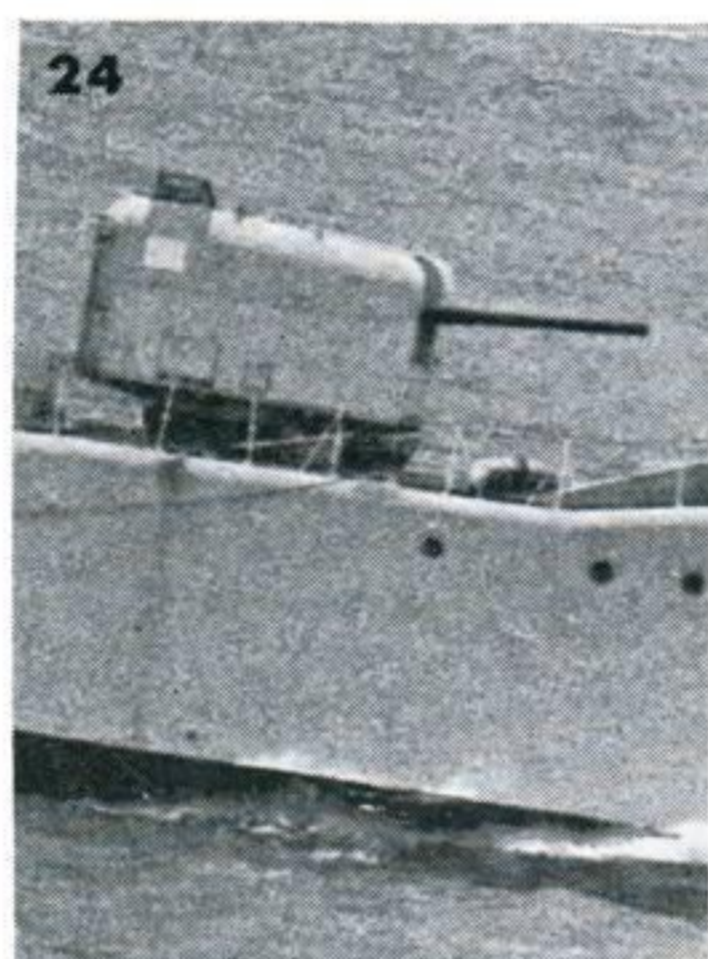
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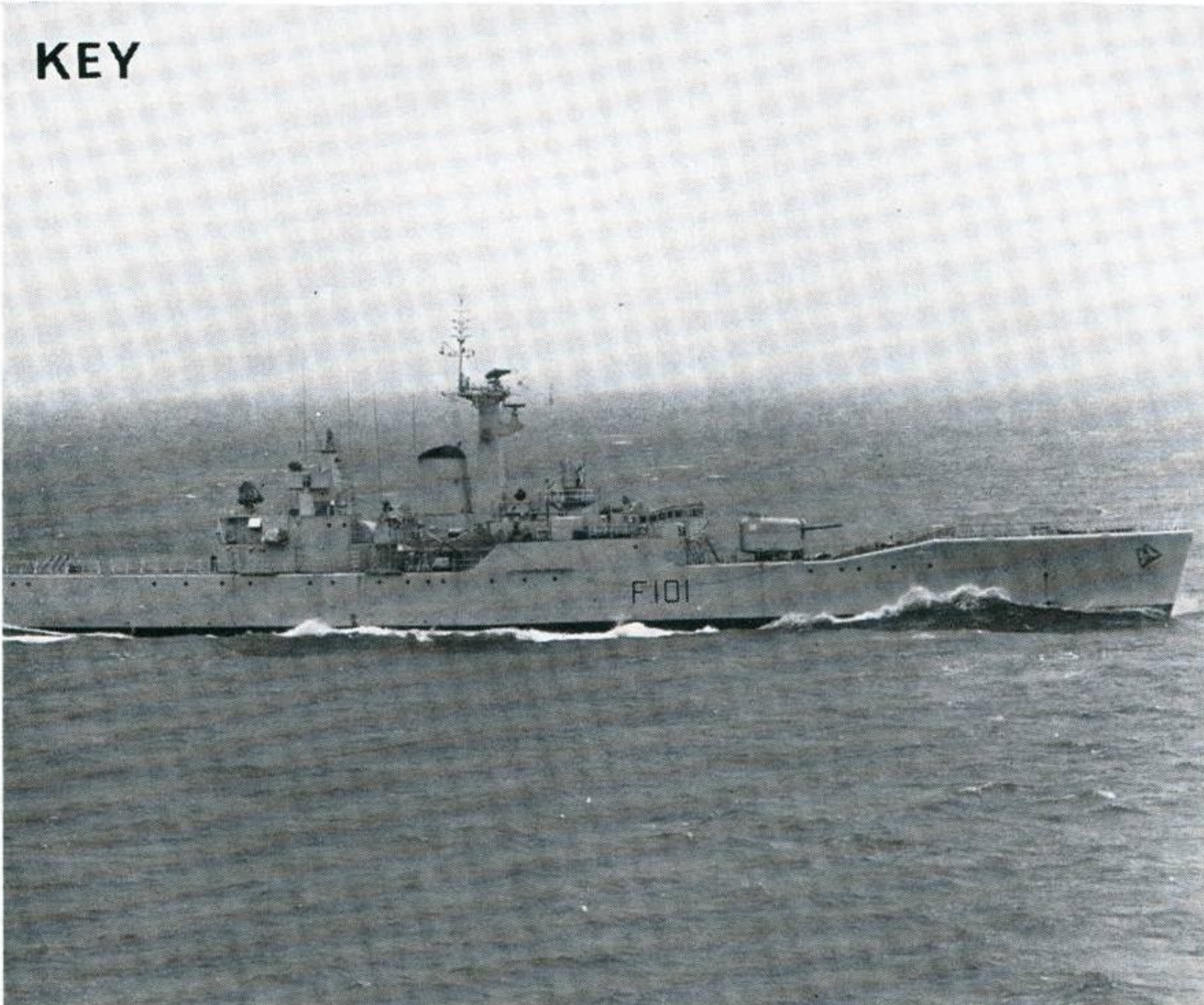
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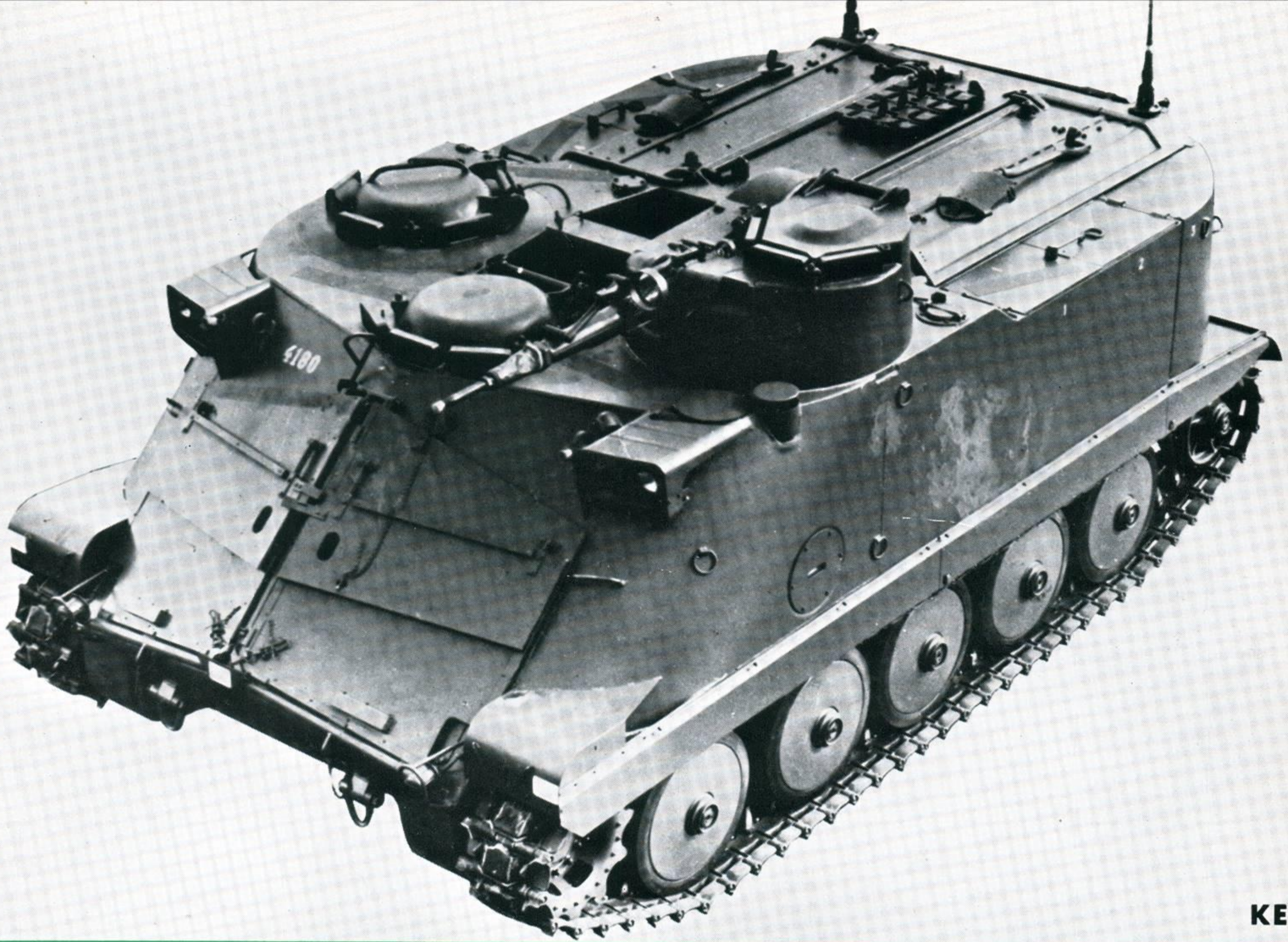


HMS ROTHESAY *continued*

Lesson instructions are on page 145 Solutions are on the back cover





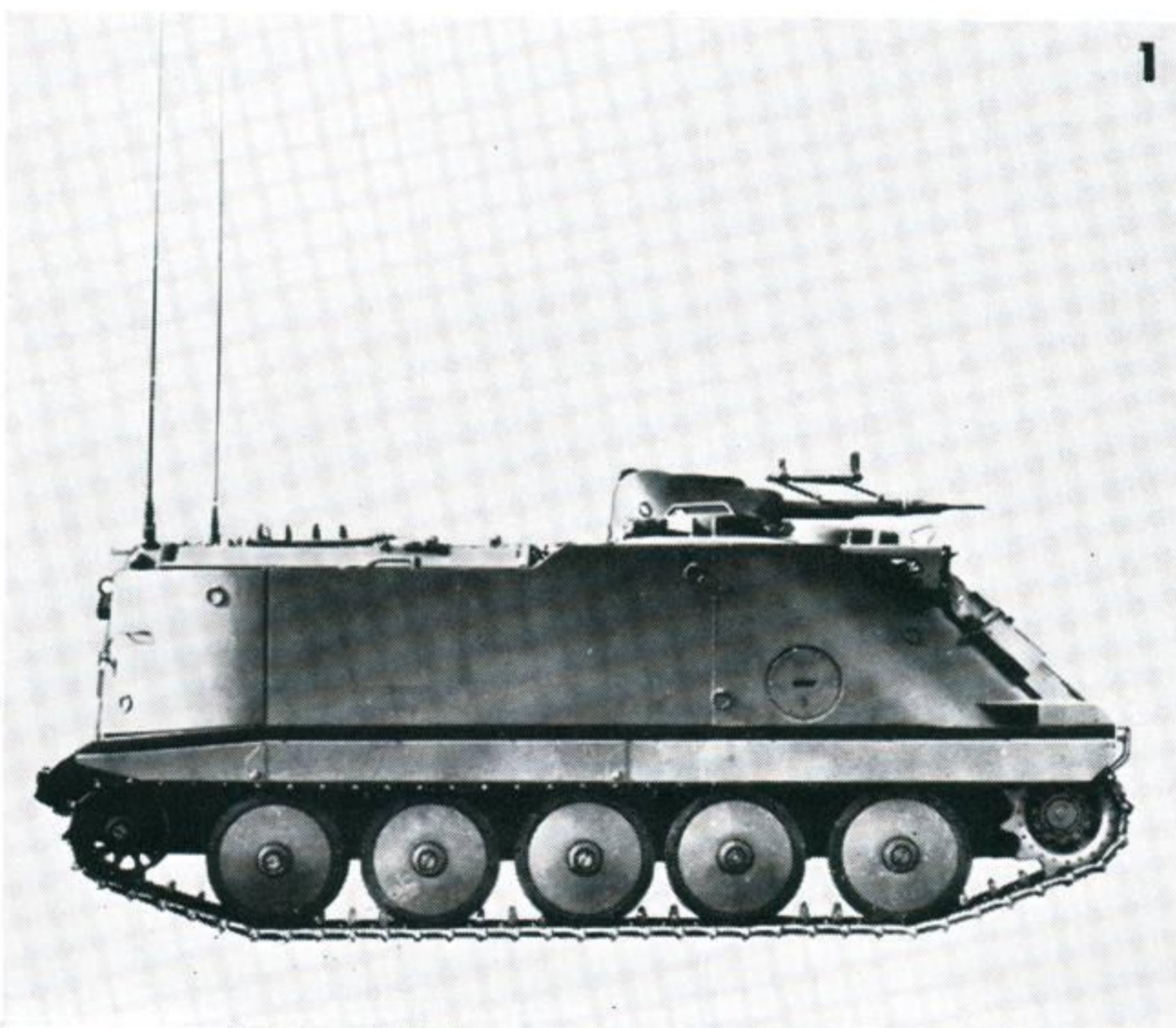


KEY

SWEDISH ARMOUR

Pbv 302

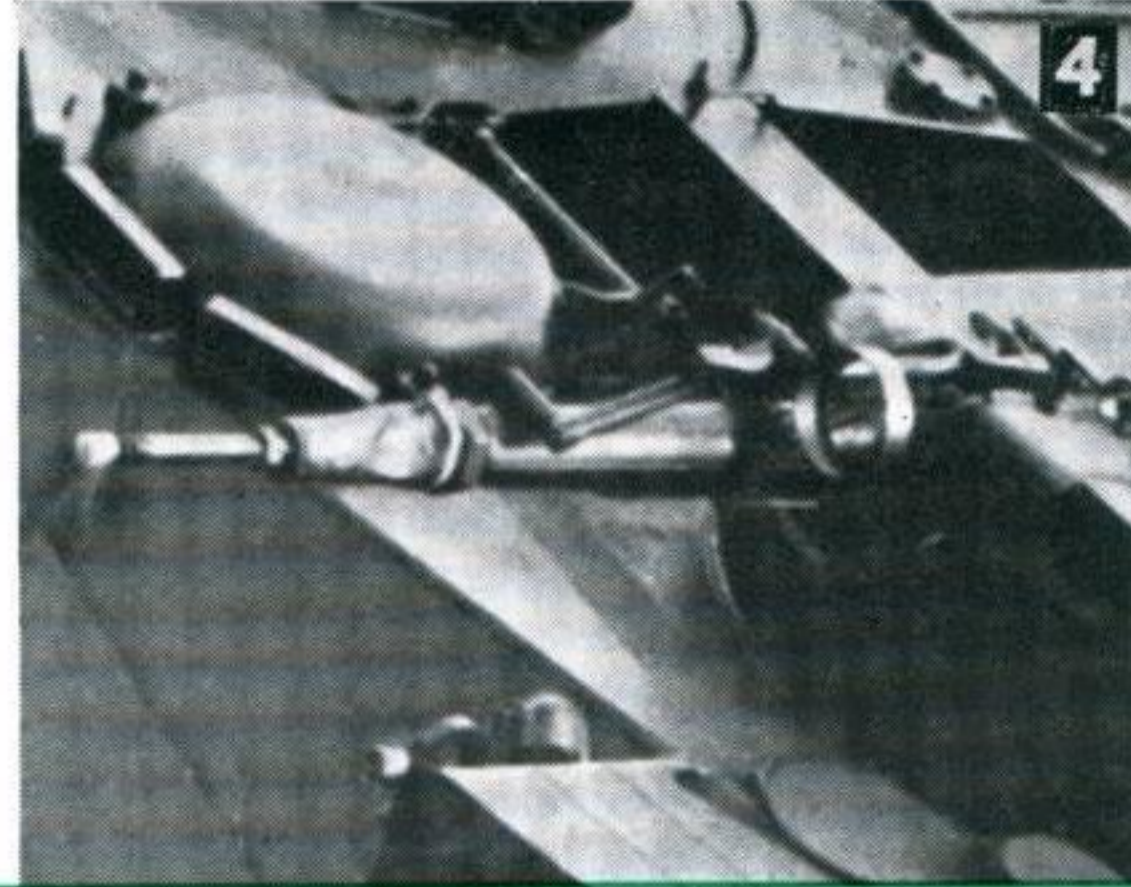
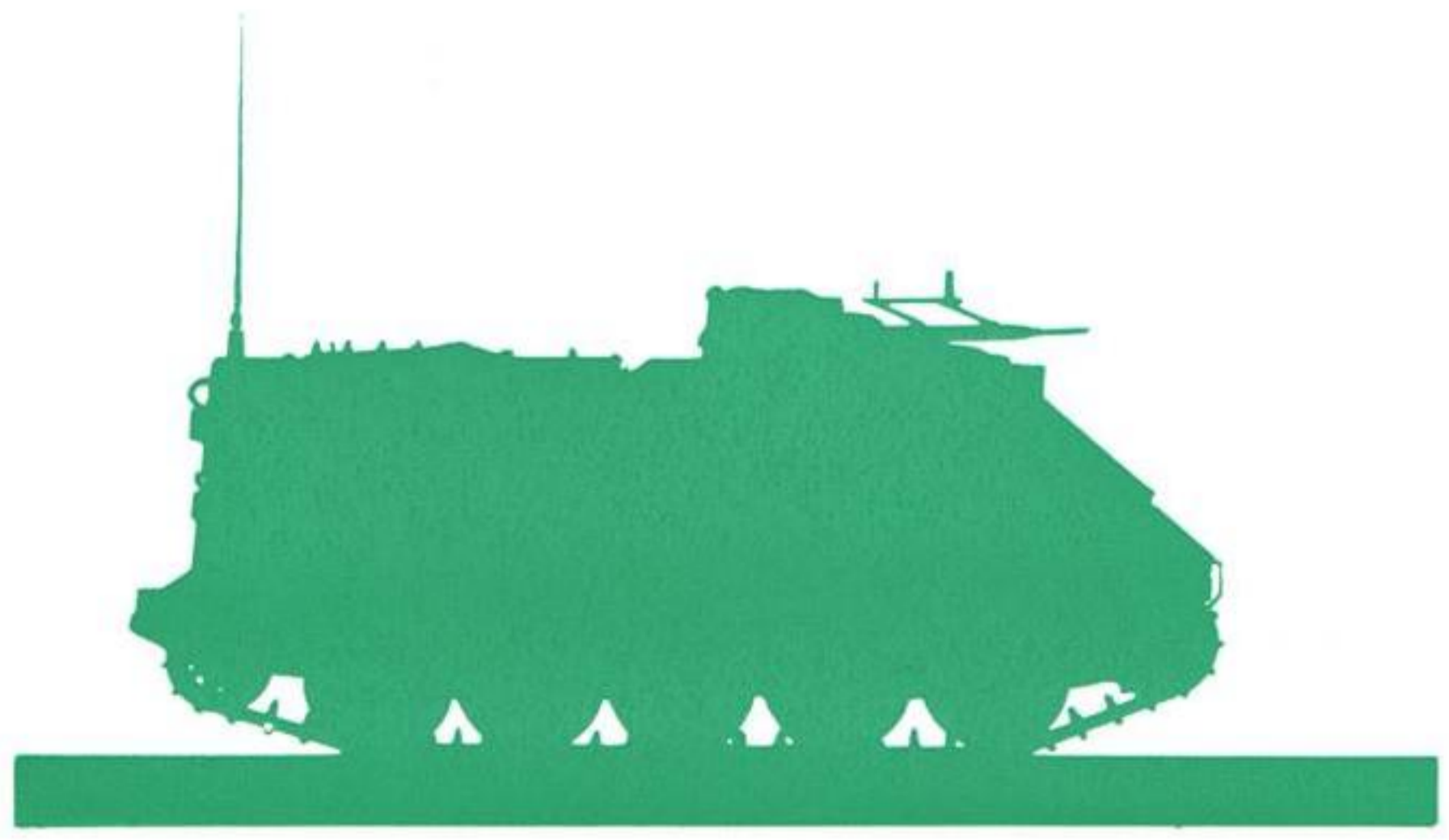
Armoured Personnel Carrier



The Pbv 302 is a newcomer to the growing number of APCs, a group of vehicles which, by reason of their function are bound, at least superficially, to resemble each other to the untrained eye.

The trained eye will observe the differences and, following the correct training procedure, will be able to identify the Pbv 302. It is not, therefore, good practice to make comparisons with other APCs as a means of identity training. If you dig into the details provided in this trainer and gain a thoroughgoing experience of the Pbv 302 you will never confuse it with others which, to the untrained eye, may look similar.

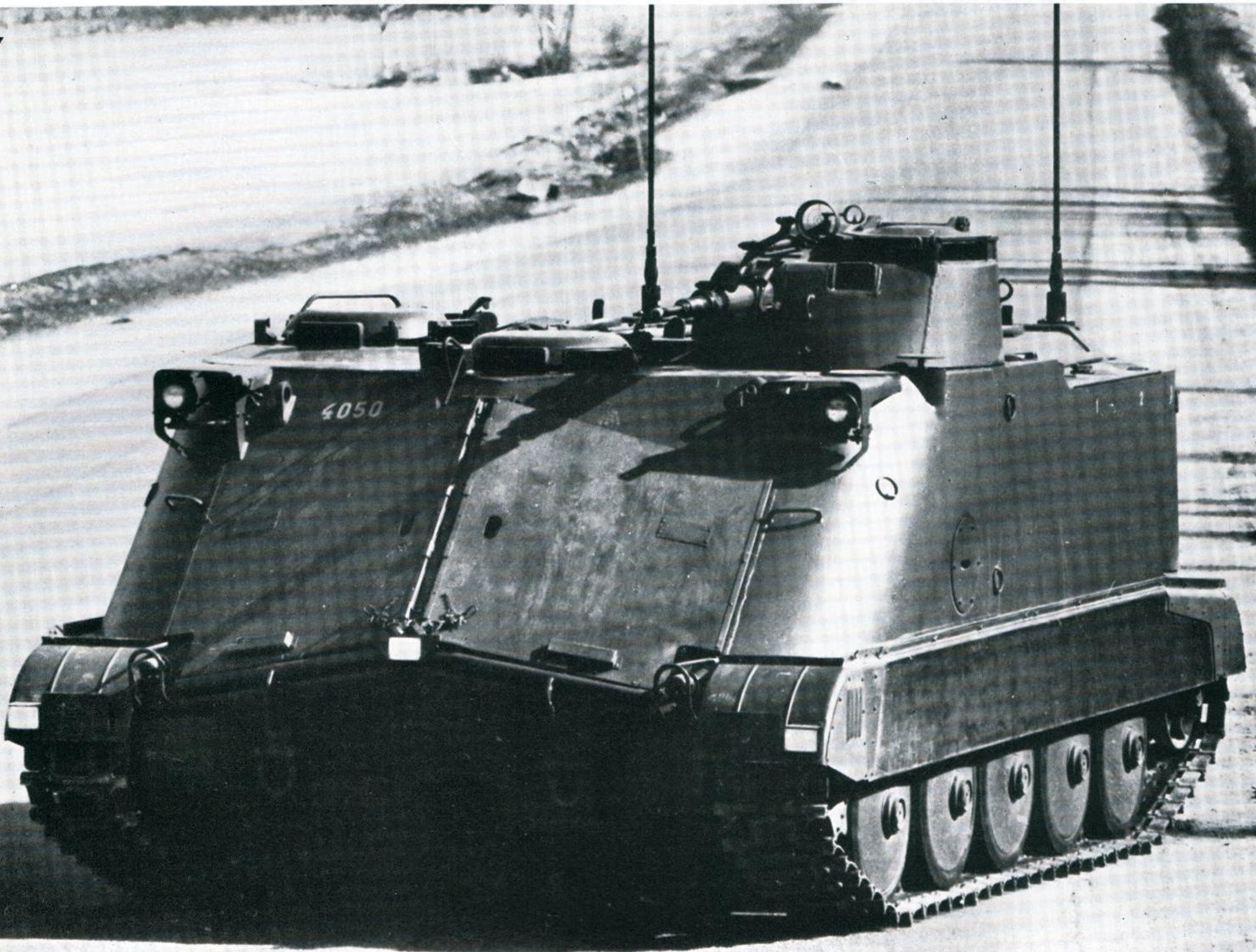
Clues to the Pbv 302—and they are but clues—include twin rear doors, two long hatches on the roof, allowing troops to fire on the move: a 20-mm. automatic cannon in the turret which is offset to the left: a vee-shaped, hinged trim-vane on the glacis plate: five flat-faced road wheels per side (as distinct from the dished kind). These clues should not be memorised: the correct training procedure (page 145) will see to that for you.

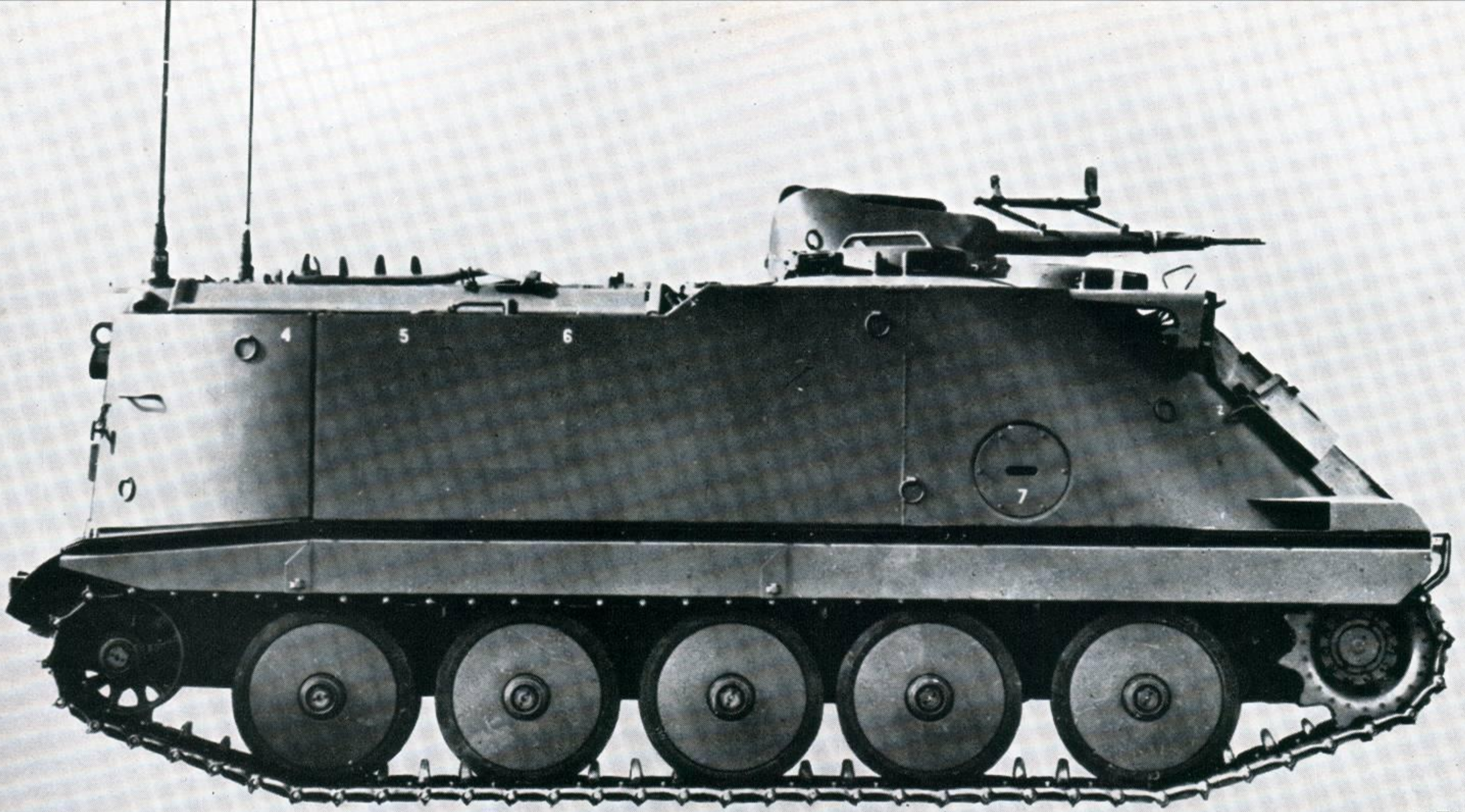


Lesson instructions are on page 145 Solutions are on the back cover

continued overleaf

KEY



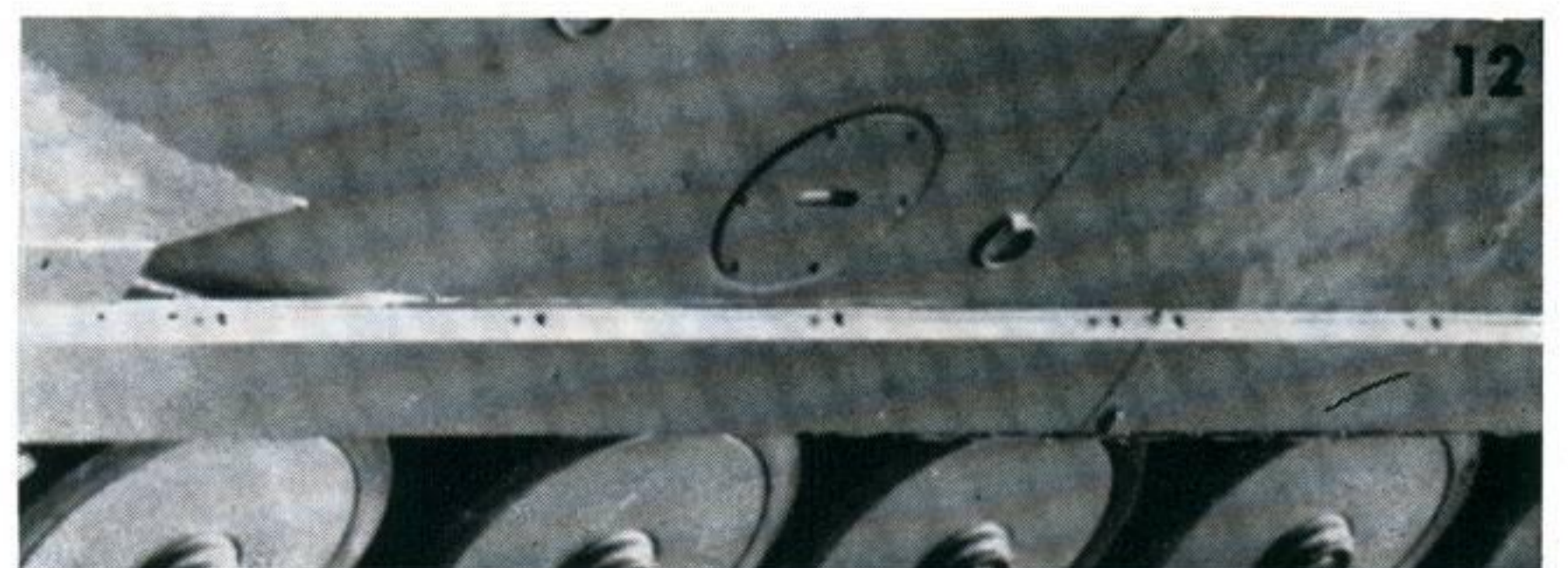
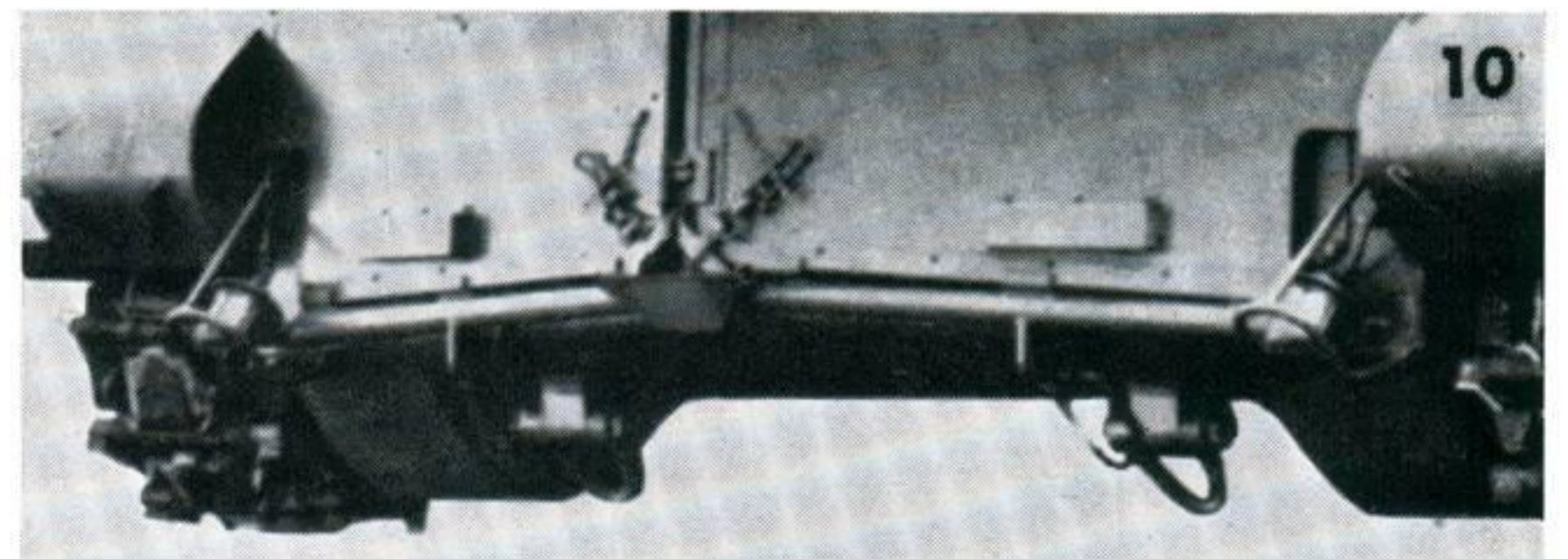
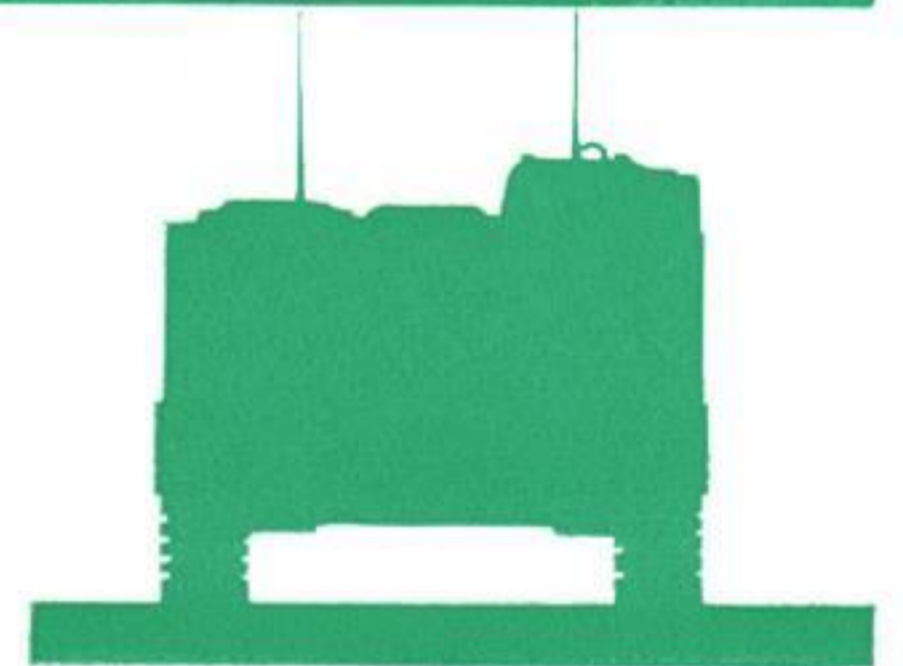
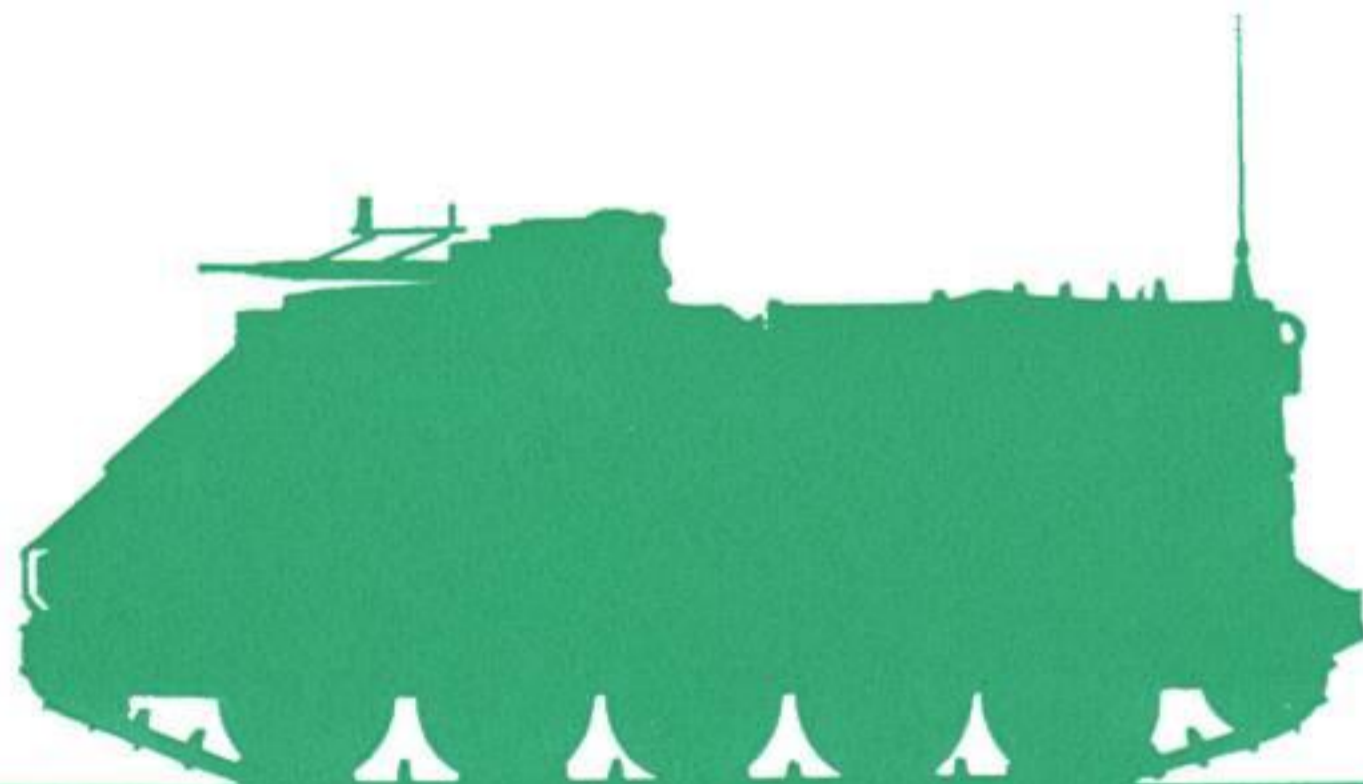


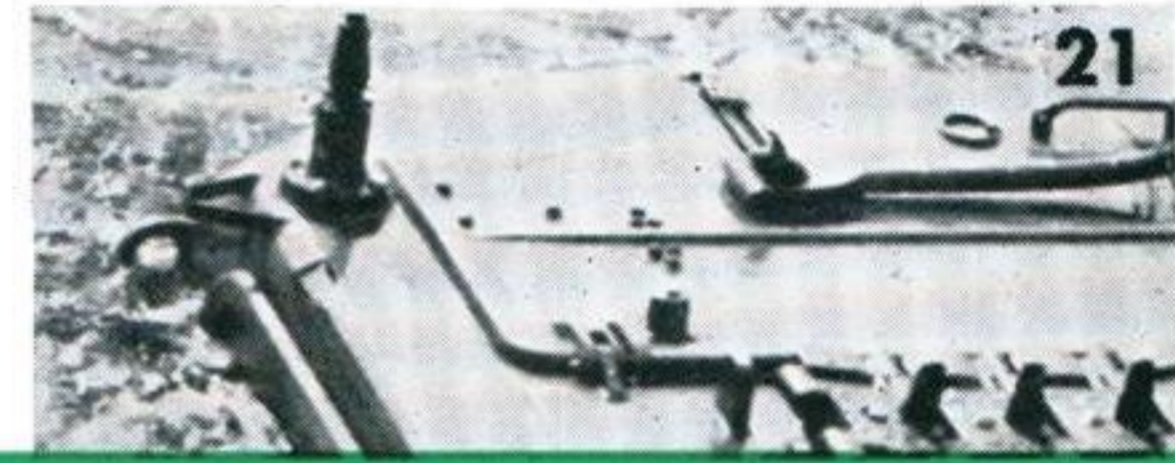
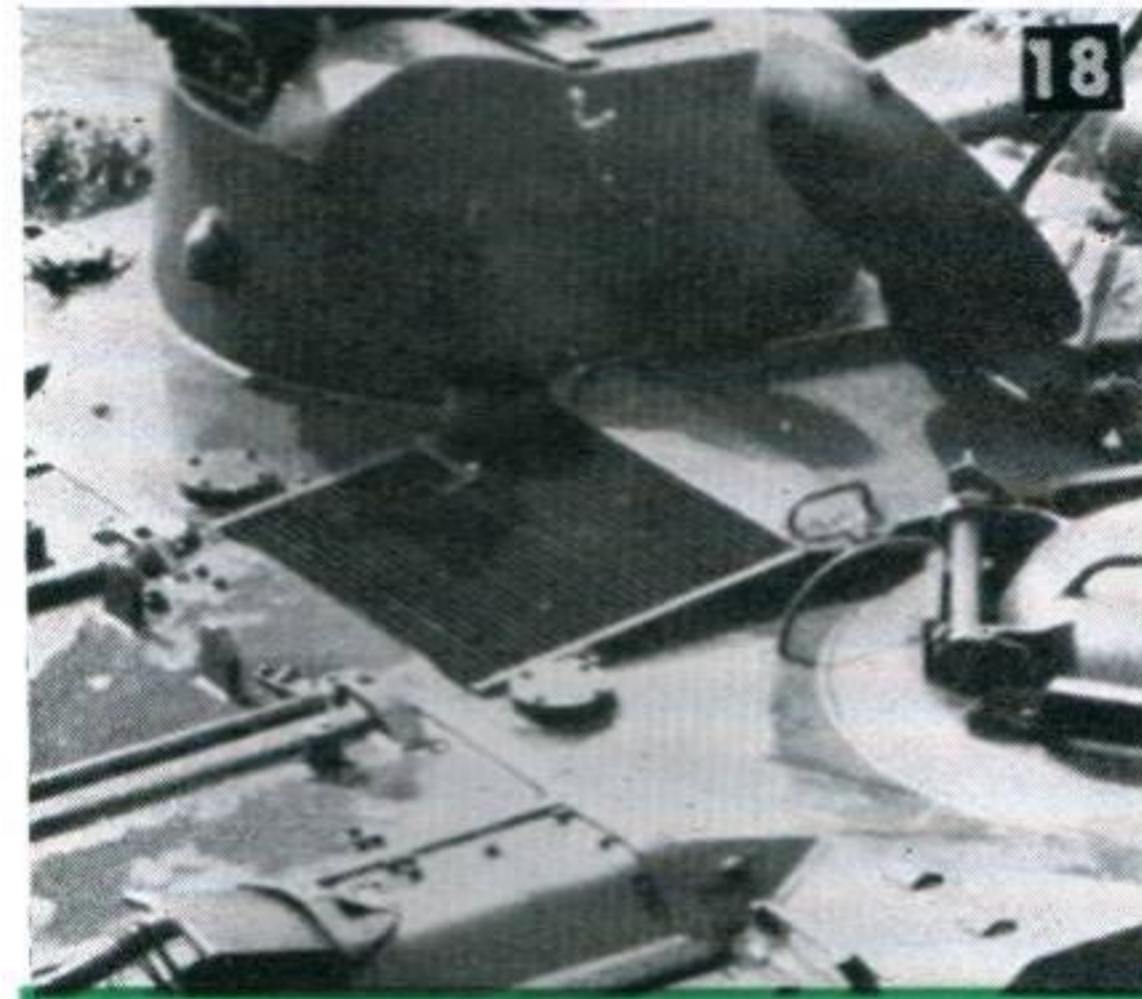
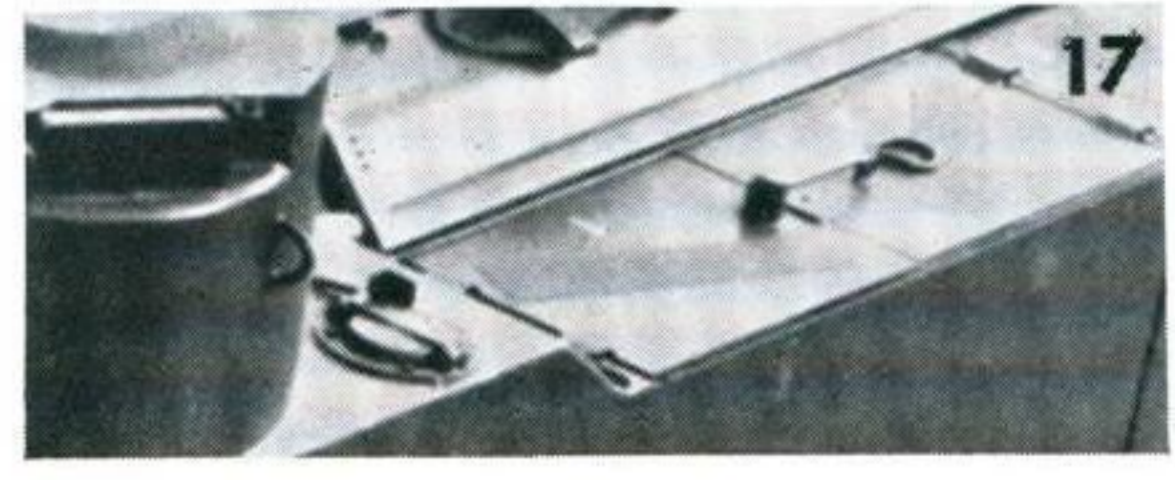
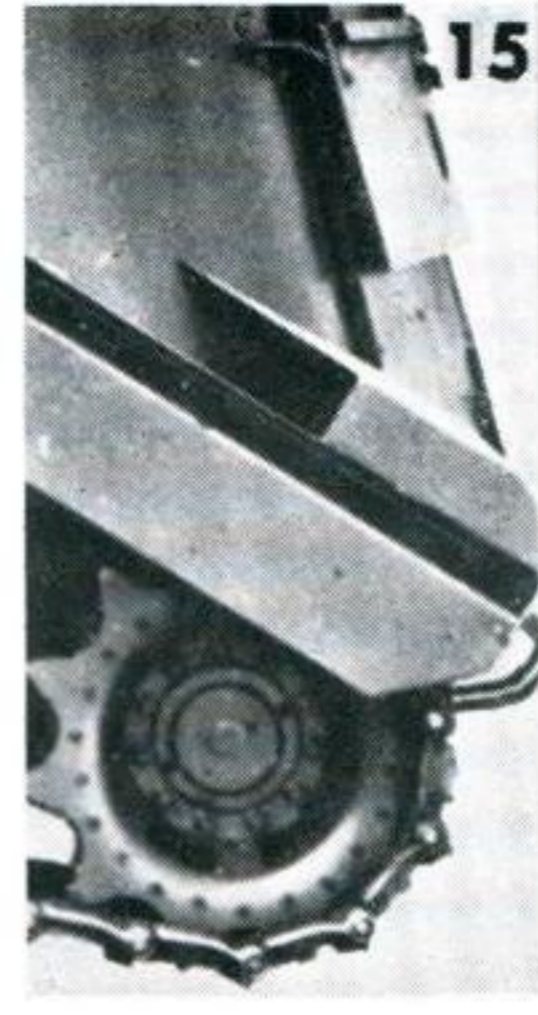
KEY

SWEDISH Pbv 302 *continued*

TECHNICAL INFORMATION

Weight laden 13.3 tons. Overall dimensions: length 17 feet 10 inches, width 9 feet 4 inches, height 8 feet 3 inches. Engine Volvo 270 gross b.h.p. Maximum road speed 40 m.p.h. Range on roads 220 miles. Nominal ground pressure 7.8 lb/in². Amphibious—yes. Turret gun 20 mm. Crew 12

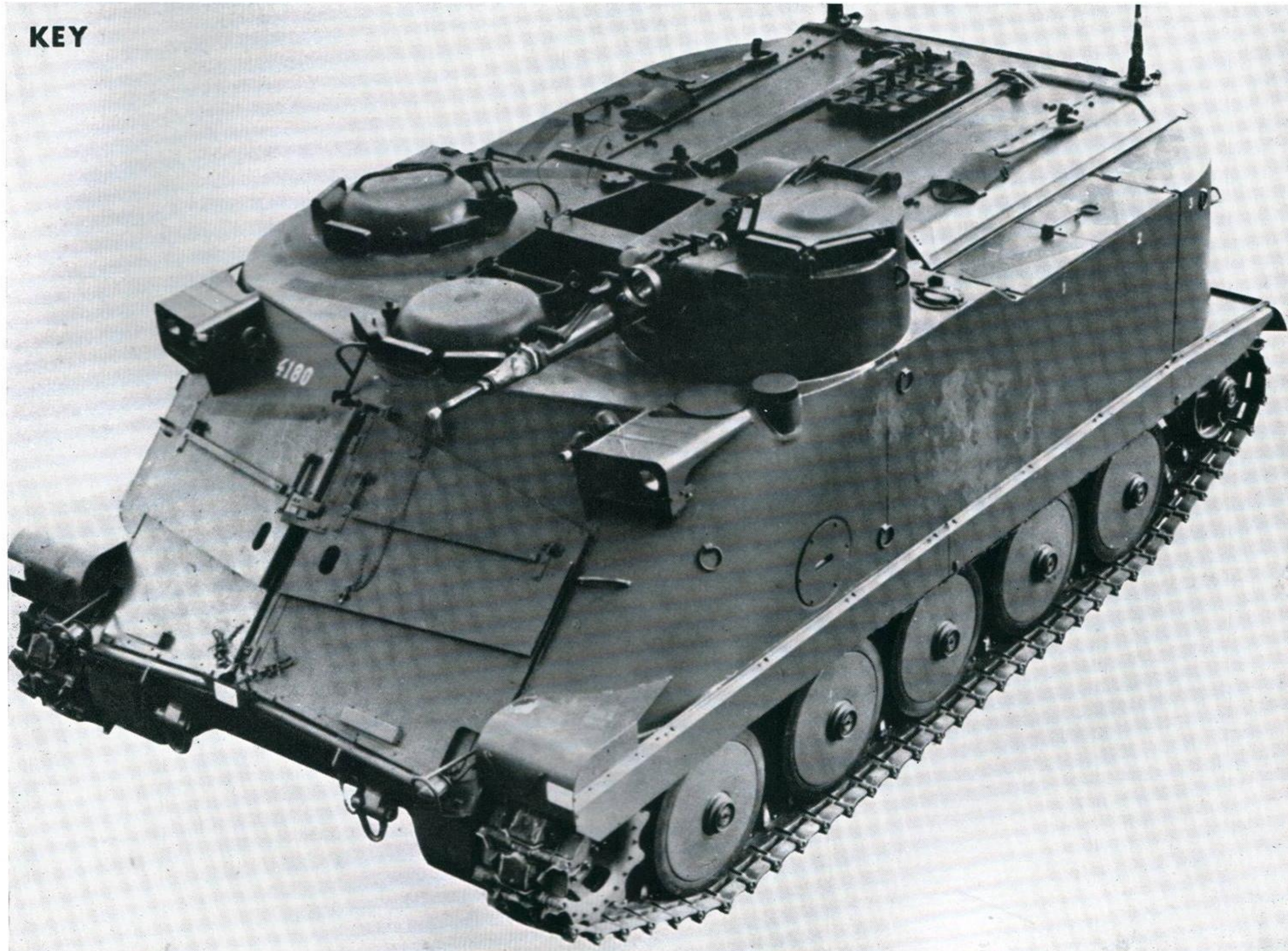




Lesson instructions are on page 145

Solutions are on the back cover

KEY





Cover Photo: The new Beagle Pup trainer/Sports-tourer has generated much interest throughout the World. There is an order list embracing more than thirty countries and covering over six hundred Pups. The picture shows a Beagle Pup-150 on demonstration in Switzerland showing its paces over the Bernese Alps. The Pup-150 is generally similar to the Pup-100 but is equipped as an optional four-seater. To achieve aerobatic qualities, including unlimited spinning, a larger rudder has been fitted to the Pup-150—a later version.

SOLUTIONS TO TESTS AND EXERCISES

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TESTING TIME

1 Scout	9 BAC 111	17 Britannia	25 Sioux
2 Vanguard	10 Kestrel	18 Packet	26 Phantom 2
3 Beagle 206	11 HS 125	19 Gnat	27 Buccaneer
4 Trident	12 Dakota	20 Sea Vixen	28 Wasp
5 Sea Vixen	13 BAC 111	21 Dominie	29 Basset
6 Buccaneer	14 Boeing 707	22 Viscount	30 Hercules
7 Andover	15 Dove	23 Wessex	31 Friendship
8 Caravelle	16 Boeing 707	24 Dove	32 Beverley

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TEST PAPERS

- Beech 18:** Jokers are second line 2nd and 4th pictures.
Gnat Trainer: Jokers are first line 4th picture and third line 1st picture.
Belfast: Jokers are first line 1st picture and second line 1st, 3rd and 4th pictures.

Below

HMS Fearless Assault Ship: Joker is second line 4th picture.

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TEST PAPER

Lynx Reconnaissance Carrier: Jokers are second line 2nd picture and third line 3rd picture.

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RFA RESURGENT

All targets are **RFA Resurgent** except Nos. 13, 21, 37 and 46 which are jokers.

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HS 125/DOMINIE T. Mk 1

All targets are **HS 125/DOMINIE T. Mk 1** except Nos. 8 (Fan Jet Falcon) 9 (PD 808), 20 (Trident), 24 (BAC One-Eleven) and 30 (Fellowship).

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VULCAN B. Mk 2

All targets are **Vulcan B. Mk 2** except Nos. 7 and 19 (Victor) and 30 (Mirage)

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HMS ROTHESAY

All targets are **HMS Rothesay** except Nos. 7, 19 and 29 which are jokers.

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PBV 302

All targets are **PBV 302** except Nos. 5, 7 and 20 which are jokers.

TEST PAPER

Solutions above

HMS FEARLESS ASSAULT SHIP?

