

EXA II

24 × 36 mm

The Reflex camera for all



Simple handling

Modest price

Great versatility

Simple handling

The modern man, when buying technical equipment makes simplicity his first consideration. The same principle applies with special effect to the new photographer who may be considering the purchase of his first important camera.

The EXA II is fascinatingly simple to use. But more important is the fact that this simplicity has been achieved from an entirely new construction, making possible an extremely favourable price without in any way lessening the tremendous scope of the camera. The degree to which this combination has been achieved is responsible for the unique position of the EXA II in today's market.

Just to have this attractive camera in your hands will convince you immediately of your ability to get first class results with it from the word go.

Many of your pictures will be of people, animals moving quickly. For this you will set a short exposure time and adjust the lens to the aperture or f No. necessary for the correct exposure as indicated by a simple table or hand exposure meter.

If, however, you want a great depth of focus for "still" subjects then use a small aperture and obtain the necessary exposure time from your table or exposure meter.

As to the sharpness of your picture, this is the very simplest thing of all. Through the eyepiece of the built-in pentaprism viewfinder, you will see a magnified bright and colourful image which is brought to its maximum point of sharpness by rotating the distance focusing ring.

All that remains is to press the release button and the image you have just seen on the ground glass will be secured in exact detail on your film.

Could anything be simpler? Unquestionably the EXA II is the camera you have longed for.



Anyone can observe instantly the absence of correct critical focusing - a slight turn of the focusing ring, now you have perfect definition and a picture to remember. If desired, the EXA II can also be delivered with a built-in Distance Meter giving all the advantages of a split-image rangefinder (see page 71).

The exposure counter.

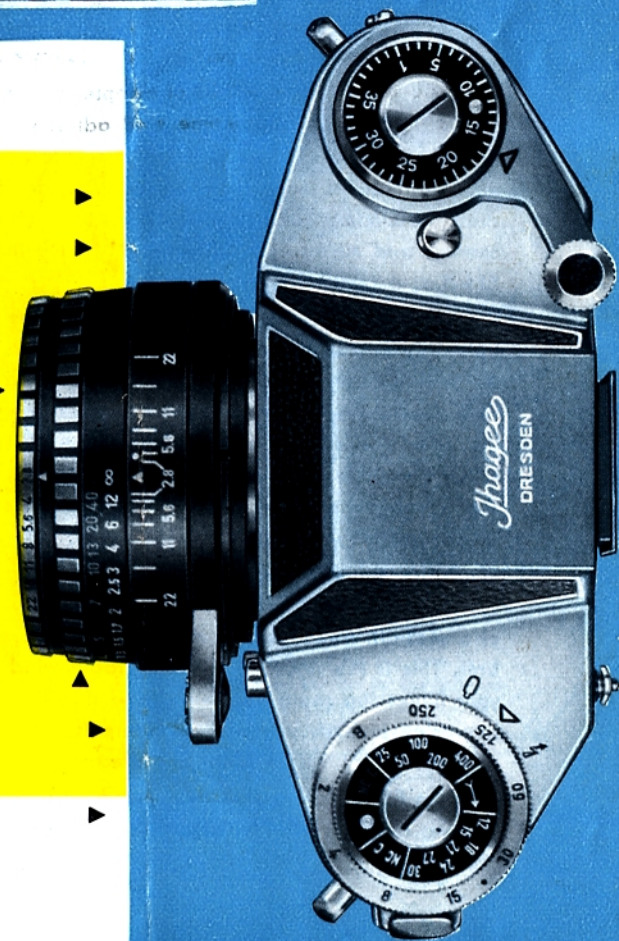
The rapid lever wind of the EXA II winds the shutter and transports the film.

The aperture ring with f numbers (with many lenses the Iris is automatically stopped down when you operate the release).

The distance setting ring with distance scale and depth of focus scale.

The release knob.

The speed setting ring for the exposure times (this surrounds a very practical film speed indicator).



Great versatility

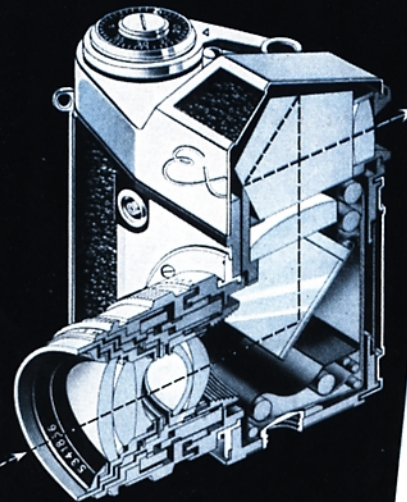
When the learner sits in a car side by side with the driving instructor for the first time in his life, that car will seem to have far more functional attributes than are necessary. But very quickly as he gains in driving practice, he learns to make full use of them. The same thing applies to a camera. With every successful photograph and especially in the case of the EXA II the camera is used to better advantage and it is a good thing that in a camera too there are functional attributes in reserve just waiting to be employed.

The single-lens-reflex camera focusing gives the EXA II a huge field of application. The reason for this is that the reflex image and the photograph always agree in every detail and are free from parallax. They are the result of one and the same lens. What you see in the viewfinder of the EXA II will appear in the final photo too. The ground glass gives you a preview of your picture, allows you to focus to the highest degree of sharpness and control and regulate the depth of focus. At the same time you can scan the scene for the best pictorial result and watch for the best possible moment for taking the picture. This perfected reflex focusing system has proved its value a million times and all its advantages hold equally good when working with long or short focus lenses, with extension tubes for extreme close-ups and even for a camera and microscope combination. Hence the enormous versatility of the EXA II.

The prismatic finder built into the EXA II gives you a reflex image which is truly a fragment of reality. Fully true to nature, upright and with the aid of the prism latterly correct too whether the camera is held horizontally or vertically. A magnifier system enlarges the reflex image four times and when using the normal lens gives the same impression as natural unaided viewing. The EXA II is held to your eye so that you are looking directly towards your picture. This is ideal for moving objects and with sports subjects you can easily pan with the EXA II while exposing.

The focal-plane shutter is practically silent in operation and adds to the versatility of the EXA II by the large range of exposure times ($1/2$ down to $1/250$ th of a second). When working with the EXA II there is no delay between exposures. This is the result of the short rapid wind lever. With one pressure of your finger the shutter is wound and the film transported. Finally for those interested in flash photography, there is a universal contact with a simple symbol setting for flash bulbs and electronic flash.

Thus the EXA II can really be employed in every field! It possesses operational reserves sufficient even for advanced professional photographers.



The picture produced by the lens is reflected by the mirror on to the ground-glass. It is reversed by the prism thus producing a picture laterally correct for viewing. At the moment of exposure, the mirror swings up, the focal-plane shutter opens and the picture is captured on the film completely free from parallax.

EXA II - points of special interest

Taking material

Perforated miniature film of 35 mm breadth for exposures of 24x36 mm.

Shutter

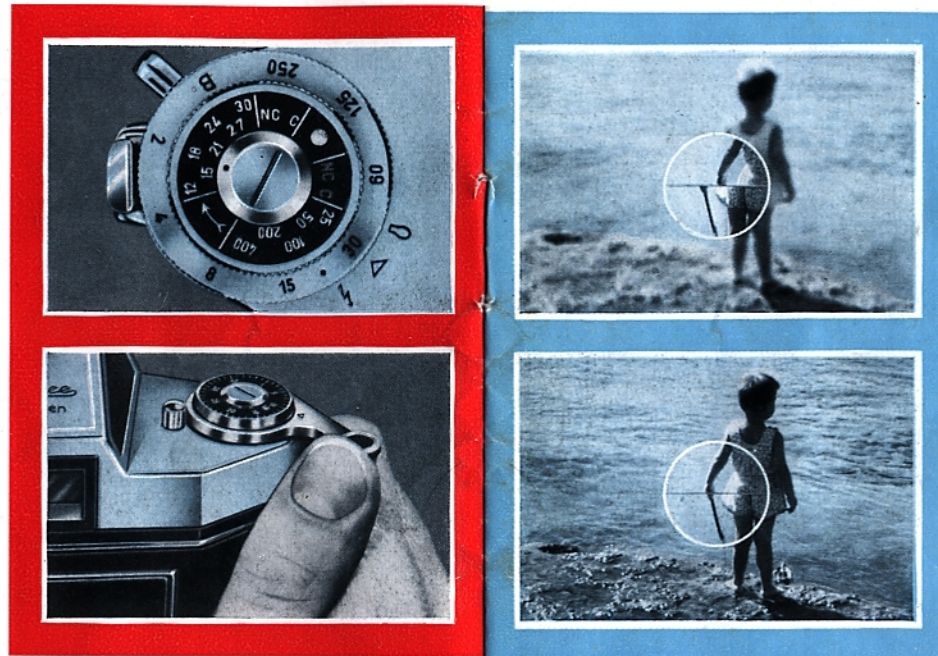
Precision focal-plane shutter (1) with extremely quiet running. Focusing ring (2) for comfortably and quickly setting the exposure-times $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{15}$, $\frac{1}{30}$, $\frac{1}{60}$, $\frac{1}{125}$, and $\frac{1}{250}$ th. B- and T-settings for short and long exposure times, when taking time-exposures. Shutter release-stop (3) guards against accidental firing. Release knob with flexible cable-release.

Flashlight

Universal flashlight contact with symbol-focusing. Flash signs at the red dot = shutter setting at $\frac{1}{30}$ th sec for flash tubes (electronic flash units), bulb-signs at the red dot = shutter setting on $\frac{1}{15}$ th sec for flash-bulbs.

Rapid winder

Automatic rapid winder (4) coupled with the film-drive, thus no double-exposure or non-exposed frames.



Film-track

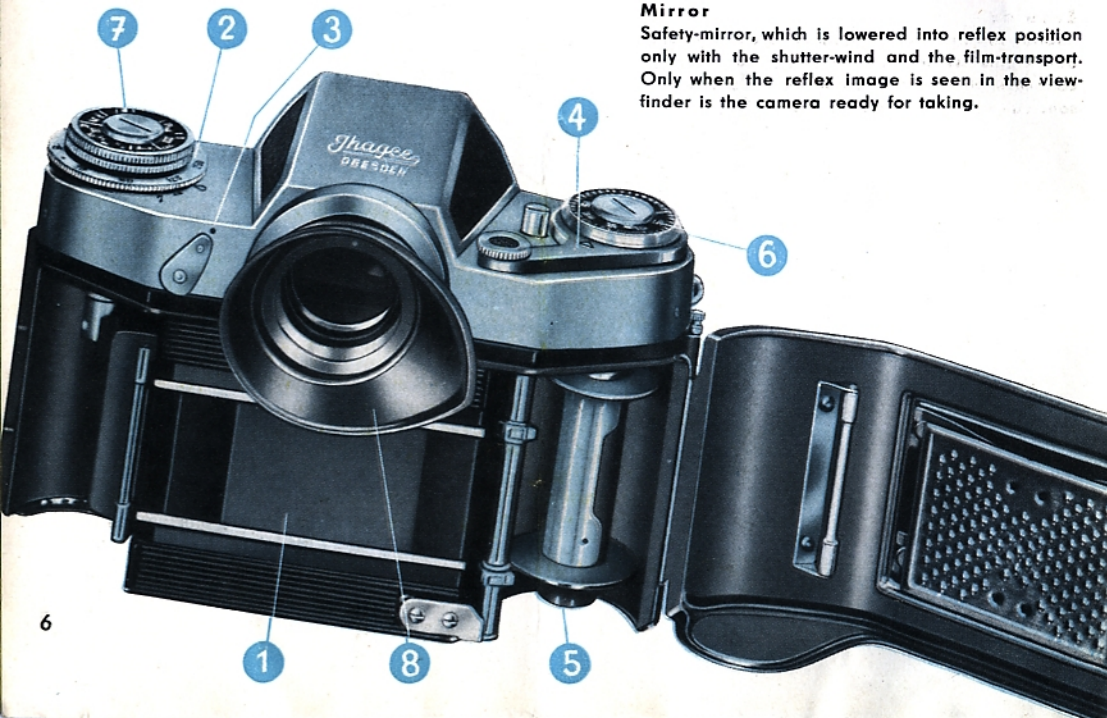
Modern and sure film-track with excellent film-plane. Either film-transport to take-up spool (5) and rewinding or transport from cassette to cassette. Film-counter indicator (6) up to 36 exposures. Emulsion speed-indicator (7) for DIN-values from 12 up to 30, for ASA- and other values from 25 up to 400 and, moreover, provided with 4 character signs for colour films.

Distance meter

Deliverable as an additional split-image rangefinder built-in on EXA II. Recommended for poor-sighted persons and under bad light conditions. Incorrect focusing = subject appears in bright measuring field cut and out of alignment; correct focusing = the image merges precisely in vertical or horizontal direction.

Equipment

Elegant and handy lightweight body with durable cover. Exterior metal parts chromium finished and black enamelled. Modern camera back catch. Strap holders. Tripod-bush. Measurements of body 13x9.3x4.5 cm, weight = 950 g, normal objective included.



Mirror

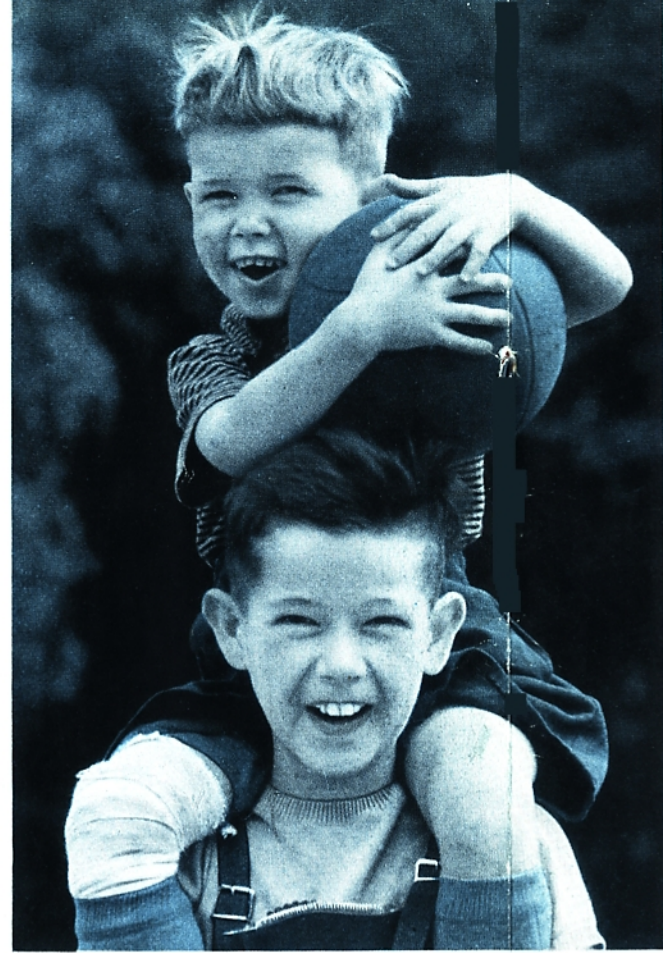
Safety-mirror, which is lowered into reflex position only with the shutter-wind and the film-transport. Only when the reflex image is seen in the viewfinder is the camera ready for taking.

Eyepiece

Rubber eyepiece (8) eliminating stray side-light, deliverable as accessory. Provision for inserting corrective glasses, too, so that weak sighted persons can focus without spectacles.

Suitable for second camera

EXA II is eminently suitable as a second camera instead of EXAKTA Varex, estimated the world over and, of course, for the simpler EXA I, too. The main accessories of both these models can be employed for EXA II, above all the normal and special lenses from the shortest up to the longest focal distance and all the accessories for close-ups and micro-photos can be used without reservation free from cut-off and parallax.



The mirror reflex focusing of the EXA II
guarantees pictures not only
of technical but also of pictorial value!

Choice of lens

Miniature photos 24×36 mm in size demand a high performance from their lenses. For the EXA II, therefore, only high class lenses are provided each of which is a masterpiece in its price class. Each lens is an optical system of a high order of correction ensuring photographs of pin-point sharpness and natural colour rendition. So that you will not be deterred by dull weather from obtaining excellent photographs, the EXA II is fitted only with really high-speed wide aperture constructions.

It goes without saying that the normal lens of the EXA II is interchangeable in a quick simple operation and, if desired, can be replaced by a wide-angle or a special long focus lens. Further, the EXA II has the same bayonet fitting as the EXA I or EXAKTA Varex, and all the lenses made for these three cameras can be inserted in each model. Subject selection and focusing are done in exactly the same way when using the interchangeable lenses as with the normal lens. In every case the reflex image in the EXA II is identical with the photograph taken.

The normal lenses and the interchangeable ones for the EXA II are fitted with modern diaphragm mechanisms, making it possible to focus with the largest lens aperture and the brightest reflex image and then, without taking the camera from eye-level stopping down the diaphragm to the required value which has been fixed in advance. This important operation is fully automatic on many lenses, the diaphragm automatically springing down to the preset aperture at the moment of shutter release.

Further features of all the lenses for the EXA II are as follows: precision helical barrel focusing down to short distances (with the normal lens down to about 20" and with the Domiron even down to 15"), depth of focus scale for reading the depth of field, and all the lens surfaces hard coated.

EXA II is delivered with one of the following lenses:

Name and aperture	Diaphragm type*)	Focal length	Angle of field (standard value)	Diameter of front-mount
Jena T 2.8	F. A. D.	50 mm	45°	51 mm
Jena T 2.8	Clicks	50 mm	45°	37 mm
Pancolar 2	F. A. D.	50 mm	45°	51 mm
Primotar E 3,5	F. A. D.	50 mm	47°	42 mm
Primotar 2,8	Preset	50 mm	47°	42 mm
Domiplan 2.8	F. A. D.	50 mm	45°	42 mm
Domiron 2	F. A. D.	50 mm	45°	57 mm
Meritar 2.9	Preset	50 mm	45°	37 mm

*) Diaphragm type: F. A. D. = full-automatic diaphragm. With the release pressure the diaphragm closes and then opens again automatically.
 Preset = preset diaphragm.
 Clicks = diaphragm catch. One counts the stops of the diaphragm ring as far as the working diaphragm.

Three exposures from the same standpoint show you the effect of short and long focus lenses:

above: wide-angle lens with focal length of 35 mm,
 middle: normal lens with focal length of 50 mm,
 below: long focus lens with focal length of 300 mm.



Wide-angle lenses with short focal length and large angle of field cover, from the same standpoint, a larger subject area than the normal lens. They are used when taking architectural and interior photographs, reproductions in narrow rooms, etc.

Long-focus lenses cover a small angle of field and take in only a small part of the section from the same standpoint. But give in return a more detailed rendering than with a normal lens. These lenses are necessary for landscapes, architecture, animal photographs, candid snapshots, sports work and because of the fine perspective rendering, are essential for portraits.



Accessory lenses for EXA II

Name and aperture	Diaphragm type (see page 10)	Focal length	Angle of view (standard value)	Diameter of front-mount
Flektogon 4	F. A. D.	25 mm	82°	80 mm
Flektogon 2.8	F. A. D.	35 mm	62°	51 mm
Meyer Wide Angle 4.5	Preset	35 mm	63°	51 mm
Jena B 1.5	Preset	75 mm	32°	60 mm
Jena Bm 2.8	F. A. D.	80 mm	30°	51 mm
Trioplan N 2.8	F. A. D.	100 mm	25°	57 mm
Jena Bm 2.8	F. A. D.	120 mm	21,5°	70 mm
Primotar 3.5	Preset	135 mm	18°	57 mm
Jena S 4	Preset	135 mm	18°	51 mm
Jena S 2.8	Preset	180 mm	14°	80 mm
Primotar 3.5	Preset	180 mm	14°	70 mm
Tele-Megor 5.5	Preset	180 mm	14°	51 mm
Tele-Megor 5.5	Preset	250 mm	10°	60 mm
Jena S 4	Preset	300 mm	8°	80 mm
Tele-Megor 4.5	Preset	300 mm	8°	85 mm
Tele-Megor 5.5	Preset	400 mm	6°	85 mm
Jena-Tele-objective 8	Normal	500 mm	5°	80 mm

This is the way to take "close-ups"

The world of close-up photography is a new world for you, a world full of wonders and surprises. Small, even minute things and living creatures you have scarcely observed hitherto grow before the lens of an EXA II into striking subjects, the rich form and colour of which can only be appreciated in close-up. After all such pictures are no more difficult to take than simple landscape exposures. You need a single reflex camera only, an EXA II of course, and some practical but in no way extensive accessories. For - and it must be said once again - even in the closest of close-ups the reflex image loses none of its accuracy and the prism finder aids you in your choice of subject area, the sharpness, the depth of sharpness, as well as showing you the harmony of colours and shapes. What accessories are needed for close-ups with the EXA II?

Bayonet Adapter Rings and Tubes

In order to obtain the necessary extended distance between the lens and the film-plane for short taking distances, you insert the ordinary bayonet rings and tubes between the camera body and the lens in any required combination. In this way any scale of picture you wish can easily be achieved including enlargements over and above the actual subject size. To achieve the various extension, there are the two-in-one ring of 5 mm, the pair of bayonet adapter rings screwed together (10 mm), and, for screwing between the pair of bayonet adapter rings, 3 tubes of 5, 15, and 30 mm length.

Autocouple Extension Release

For close-ups of moving miniature subjects, the automatic diaphragm lens is specially important. So that you may be able to stop down the diaphragm automatically when using extension increases such as bayonet adapter rings and tubes as well as the Miniature Bellows Attachment (shown below), the autocouple extension release is inserted between the release buttons of the objective and the camera.

Swing Angle Attachment

Close-ups mostly require the use of a stable tripod. The swing angle attachment can be fixed to a tripod vertically or horizontally rendering possible the easy movement of the camera forwards and backwards, thus giving reliable focusing at maximum sharpness with the invaluable focusing slide. At such short taking distances the lens helical focusing mount has too fine a movement to achieve this. A further advantage is that the camera can be switched at will from horizontal to vertical and vice versa. The actual increase of extension is made by bayonet rings and tubes.

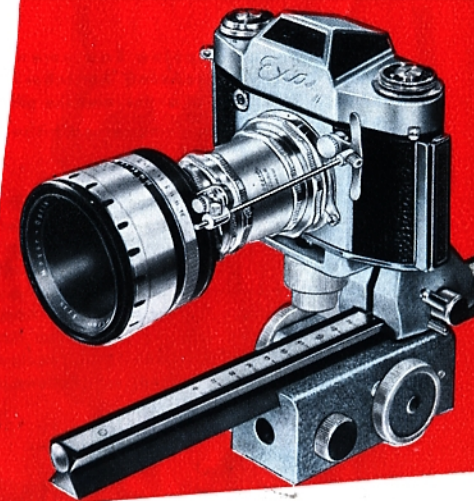
Bellows Attachment

This attachment is recommended if you need to take small objects frequently and in the most practical manner. With the aid of the bellows focusing attachment with a continuously variable bellows extension from 3.5 up to 22 cm, the scale of pictures and the image distance (that is the distance between lens and film plane) can be altered quickly and continuously. This attachment too can be screwed onto a tripod horizontally and vertically permitting the camera to be changed from the horizontal to the vertical position and vice versa. If you need to focus from infinity to very close distances without interruption, then you will need the special Jena T f 2.8 50 mm lens with sunk mount.

Miniature Bellows Attachment

If you prefer a small bellows attachment which is easily portable then we recommend this type. The extension can be continuously altered from 3.5 up to 12.5 cm. A precisely worked guide guarantees parallelism of the lens carrier and the film plane. The miniature bellows attachment can also be fixed to a tripod horizontally and vertically and when it is necessary to focus continuously from infinity to close quarters can also be used with the special Jena T f 2.8 50 mm lens in sunk mount.

EXA II with Bayonet Adapter Rings and Tubes for close-ups fitted also with the Autocouple extension release for operating the automatic diaphragm. (Seen on the Swing Angle Attachment.)



Miniature Bellows focusing Attachment for EXA II



Bellows focusing Attachment for EXA II



The accessories are described only briefly in this leaflet. If you require further details we will send you leaflets and instructions for use with pleasure and, of course, without charge. Please write to us indicating what particular accessories interest you.

EXA II



EXA II

represents traditional precision work, down to the smallest screw. It comes from a factory which, in the main, produces single-lens reflex cameras, thus having decisively contributed to the world-wide success of this camera type for over forty years: in 1936 it brought out the first single-lens miniature reflex camera of the world, the Kine-Exakta 24x36 mm.

EXA II

fills up the gap in performance between the master camera EXAKTA Vorex and the simple model of the EXA I, so fulfilling the special wishes of many amateurs. Whatever the performance needs and in whatever price range the "exactly right" camera is available from the Ihagee range.

See your specially appointed dealer.

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