



FOTOVERSCHLÜSSE

HINWEISE FÜR REPARATURWERKSTÄTTEN



Service Instructions for PRONTOR Shutters
Models: PRONTOR-PRESS I-10p; p1; p2

1. General Introductory Remarks

The purpose of these service instructions is to assist repairmen in handling repairs rapidly, efficiently, reliably and without any appreciable difficulties. The instructions start with a description of the operation of the shutter and it is advisable to read this paragraph carefully, because knowledge of the functions of the individual components is the basis for understanding the co-ordinated operation of all components in the PRONTOR-PRESS shutter.

Notes

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- a) The PRONTOR-PRESS shutter can only be dismantled after it has previously been removed from the camera.
- b) The numbers used in the text are the line item numbers in the spare parts list.
- c) A reference to right or left in the service instructions refers to the position shown in the illustrations in the spare parts list.

All parts shown in the spare parts list are shown in the position as assembled in the shutter, so that in case of doubt they can be used as reference.

A) Tools for the Repair

Except for the front plate wrench MV 100 and the lever bending tool A2 there are no other special tools required for dismantling and repairing a shutter.

In selecting the screwdrivers it is important, however, to select the right size for the various screws. Wherever screwdrivers of improper size are used, chances are that the slots in the screws will be damaged.



b) Lubricants

The manufacturer lubricates the shutter by means of special pastes at all positions requiring lubrication and this lubrication can be regarded as a life-time lubrication. In doing repair work lubrication is only necessary where parts have been washed or have been replaced by new ones.

From the attached lubrication diagram it can be seen at what points the shutter components have to be lubricated and what lubricant is to be used.

Note

In lubricating the shutter, lubricants other than those indicated in the lubrication diagram must not be used. Oil or grease must not be used in the shutter. The repairman must see that there will be no accumulation of lubricants on edges, in openings and holes. If necessary, the excessive lubricant must be wiped off.

c) Spare Parts

If in repairing a shutter it is necessary to replace parts, only

factory-made spare parts

should be used. These parts can be ordered by using the attached spare parts list as reference. In this respect it is necessary to indicate the exact designation and the part number given in the spare parts list. This is the only way to insure that the correct replacement parts will be supplied.



2. Mode of Operation

Depending upon the respective exposure time set, the single-action pre-set shutter provided with two cable release sockets 16 and 26 can be opened by use of the cable release socket 16 for a longer or a shorter time interval. On the other hand the cable release socket 26 merely serves to simultaneously open the shutter blades 46 and diaphragm blades 49 for pre-viewing.

a) Opening the Shutter and Diaphragm Blades

By actuating a cable release fitted into the cable release socket 26, the shutter blade ring 45 is rotated by the tripping pin 27 striking the lug 108. With the drive ring 44 held in position by spring action, a rotation of the shutter blade ring 45 causes the shutter blades to open and simultaneously the diaphragm opening rivet 109 displaces the diaphragm lever 111 resting against the diaphragm disc 50 thus opening the diaphragm fully.

When the shutter blade ring 45 returns to its original position, the shutter blades 46 close, the diaphragm lever 111 becomes disengaged and the diaphragm disc 50 is rotated by the action of the diaphragm spring 56 - the diaphragm stops down to the aperture set. The integral cam of the diaphragm index ring 58, against which the diaphragm lever 111 rests, governs the size of the diaphragm opening (aperture).

b) Instantaneous Speeds

When actuating the shutter by means of the cable release socket 16, the release lever 24 is displaced so that the long locking rivet moves in front of the locking lug 110 of the shutter blade ring 45 and holds the latter in position, while the cocking latch 102 in positive engagement with the tripping lever initiates the shutter cycle.

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The cocking latch 102 strikes the downward lug of the driving lever 35 and displaces this lever radially toward the rim of the shutter, while the braking latch 104 is moved toward the nozzle.

The driving latch 103 in positive engagement with the driving lever 35 is pressed against the ring lever 29 and a recess of this latch accepts the driving rivet of the ring lever. Before the cocking latch 102 disengages the driving lever 35, the latter strikes the star-shaped locking lever 31b, moves this lever toward the wall of the housing and disengages the ring lever 29 so far locked in position.

After the driving lever 35 has become disengaged by the cocking latch 102, it is displaced by the action of the driving spring 36 toward the nozzle. Simultaneously the driving ring 44 is displaced by the ring lever 29 in engagement with the latter and the shutter blades open. The rest of the shutter cycle is delayed by the braking latch 104 resting against the brake lever 40, until this latch has displaced the brake lever 40 and is permitted to slip past (please also see speed setting system). At the same time the ring lever 29 and the driving ring 44 connected to the latter are returned to their starting positions by the driving latch 103 and the action of the driving spring 31 - the shutter blades 46 close.

c) Setting B

When the shutter is set to "B", the B lever 10, a lug of which rests against the setting ring 3, is disengaged, so that it comes to rest against the long locking rivet of the release lever 24. When the shutter complets its cycle, the B lever 10 moves toward the nozzle and locks the drive ring at the moment of the maximum opening of the shutter blades.



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When the pressure on the tripping pin is eased off, the release lever 24 returns to its original position carrying along the B lever 10; the drive ring 44 becomes disengaged and the shutter blades 46 close.

3. Dismantling and Re-assembling the Shutter

a) Dismantling the Shutter

After removing the four fixing screws 51;55 of the bottom 57, this part can be lifted off together with the diaphragm assembly. (For further details please see diaphragm system).

The shutter mechanism is now accessible. The shutter blades 46 can be lifted off directly, the shutter blade ring spring 22 can be unhooked and the shutter blade ring 45 and the drive ring 44 can be removed. The removal of the other parts is relatively simple and only where it is deemed necessary are detailed instructions given in the descriptions of the individual systems.

Note

Should it be necessary to replace the front plate 2, the setting ring 3 or the click-stop spring 4, the front plate ring 1 must first be unscrewed by use of the front plate retaining ring wrench MV 100.

b) Re-assembling the Shutter

Note

In general the repairman has to see to it that in reassembling the shutter no levers are bent out of position and no springs are stretched, as otherwise there will be no assurance of a proper shutter function. Particular attention must be given to the position of the tripping pin 27, as this part becomes disengaged when the shutter blade ring 45 is removed from the shutter and may slip out of



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the drilled hole of the cable release socket. The driving spring 36 must be hooked onto the spring rivet 105 of the adjusting lever 38.

Detailed instructions on how to re-assemble the shutter are given in the descriptions of the individual systems.

4. Cocking and Tripping System

The function of the cocking and tripping system has already been described in section 2. The following section contains instructions on how to replace parts, on the assembly and on the correction of defects.

a) Replacing Parts

In order to remove the release lever 24 together with the cocking latch 102, the B lever 10 and the bearing bridge 20 have to first be removed. To facilitate the work in reassembling the shutter, we also recommend the removal of the driving lever 35.

b) Re-assembling the Release Lever 24

Fit the cocking latch spring 21 on the bushing in such a manner that the long spring arm rests against the nozzle and the short arm against the wall of the housing. Place the release lever 24 into the bearing hole provided in the housing, place one arm of the tripping spring 23 against the nozzle and the other arm against the short rivet of the release lever 24, fit on the bearing bridge 20 and screw it in position. Use a pair of pincers to pull the cocking latch spring 21 toward the wall of the housing, lift it a little bit and place it against the spring rivet of the cocking latch 102.



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Defect

1. Shutter does not trip.

Cause of the Defect

- 1. Release lever spring 23 does not press the release lever 24 against the tripping pin 17.
 - 2. Cocking latch 102 does not strike the lug of the driving lever 35.

3. Ring lever 29 does not engage the

driving latch 103.

Correction

- 1. Fit in the release lever spring 23 as described under 4b, so that the release lever 24 is pressed against the tripping pin 17.
- 2a. Fit in the cocking latch spring 21 as described under 4b, so that the cocking latch 102 is pressed against the nozzle.
- 2b. Bend the supporting lug of the cocking latch 102 in such a manner that the driving lever 35 is displaced and becomes disengaged in the cocking position.
- 3. Place one arm of the driving latch spring 32 against the spring rivet for the driving spring 36 and insert the other one into the spring hole provided in the driving latch.



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5. Slow Speed Assembly and Speed Setting System

Rotating the setting ring 3 controls both the engagement of the brake lever 40 and the engagement and disengagement of the escapement. When the shutter is set for either of the speeds 1, 1/2, 1/4 and 1/8 sec. the escapement is in engagement, whereas the other shutter speeds are controlled by the relative position of the brake lever 40 and the resultant retarding action exerted by the slow speed assembly 8.

After removal of the brake lever 40 and after unscrewing the fixing screws 6 + 7, the slow speed assembly can be removed from the shutter.

Installing the Slow Speed Assembly

Rotate the setting ring 3 to the 1 sec. position, fit in the slow speed assembly 8 and screw it in position. Slip the draw lever of the brake lever 40 on the stud of the gear segment, place the washer 41 on the threaded hole, slide the brake lever 40 over it and screw it in position. After the brake spring 101 is hooked up on the rivet of the gear segment and on the brake lever screw 39, the slow speed assembly 8 is ready for operation.

Note

When assembling the setting ring 3, the repairman has to see to it that the escapement rocker arm and the control rivet of the gear segment, which project through the bottom of the housing, are accepted in the recesses provided in the setting ring 3.



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Defect

Cause of the Defect

Correction

- 1. When set for slower speeds the shutter completes its cycle without any retarding action exerted by the slow speed assembly.
- 1. The brake lever 40 is not in engagement; brake spring 101 is unhooked.
- 1. Hook up brake spring 101.

- 2. The shutter speeds are slower than indicated by the relative positions of the speed setting ring.
- 2a. Brake lever 40 does not move easily; washer 41 has been forgotten.
- 2b. Slow speed assembly is dirty.
- 2a. Remove brake
 lever 40 and
 re-install it
 together with
 the washer 41.
- 2b. Replace slow speed assembly.

Adjusting the Shutter Speeds

The shutter speeds can be adjusted by swaging or filing the control cam of the speed setting ring 3.

6. Shutter Blade System

Assembly Instructions

The red mark on the setting ring 3 must be set to "B". Slide the drive ring 44 with the recess under the ring lever 29 in such a manner that its rivet will get into the proper place and the drive ring 44 will be seated on the nozzle. In doing so attention must be given that the lug of the slow speed assembly 106 will rest against the rivet of the escapement rocker arm and that when the drive ring 44 is rotated the

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secured by means of four screws 51;55.

not open

control.

for preview



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contact arm 107 presses the contact spring 100 against the flash contact pin (please see flash contact system).

Use a pair of pincers to seize the drive ring spring 31 and place it against the spring rivet of the drive ring 4.

Before the shutter blade ring 45 is fitted in position, the spring 22 of the shutter blade ring must be hooked up on the opening lug 108 and verify that the tripping pin is in the cable release socket. Rotate the shutter blade ring 45 in such a manner that the opening lug 108 will be in front of the tripping pin and place it on the nozzle. For mounting the shutter blades 46 the shutter must be set to "B", opened and arrested in that position. The shutter blades are now fitted clockwise. With the diaphragm fully opened, the bottom 57 must be aligned with the drilled holes for the fixing screws in the housing, placedim position and

Defect	Cause of the Defect	Correction
1. Shutter blades do not close.	1a. Shutter blade ring spring 22 has not been hooked up.	1a. Hook up the shutter blade ring spring 22.
	1b. The drive ring spring 31 is not placed against the drive ring.	1b. Place the drive ring spring 31 against the drive ring.
2. Shutter blades do	2. Tripping pin 27 is missing, or not in	2. Fit in the tripping pin 27.

socket 26.

the cable release



Note

Shutter blades 46 and diaphragm blades 49 must be treated with particular care. Bent parts must be replaced by new ones. Shutter blades and diaphragm blades must be protected from fingerprints which tend to cause corrosion. In general, parts that are not in perfect working condition should be replaced by new ones and only in such cases where replacement parts are not available, the shutter and diaphragm blades should be placed on a flat surface to wipe off the fingerprints by use of a clean cloth.

Oil or grease should never be used neither on the shutter blades nor on the diaphragm blades.

7. Diaphragm System

After unscrewing the three fixing screws 47, the diaphragm covering disc 48, the diaphragm blades 49 and the diaphragm disc 50 can be lifted off from the bottom. The diaphragm index ring 58 carried on a shoulder of the bottom 57 is secured in position by use of the heads of the retaining screws 52.

Re-assembly

The bottom 57 must be placed on the worktable as shown in the spare parts list. In fitting the diaphragm disc 50 the repairman has to see to it that the two rivets come to rest in the two recesses provided in the bottom 57 and that the diaphragm opening lever will be to the left of the rivet. Fit on the diaphragm blades 49 in a counterclockwise direction so that their edges will be aligned with the outside edge of the diaphragm disc, place the flat spring into the slot provided for this spring in the bottom, fit on the diaphragm covering disc 48 in the position shown in the spare parts list and rotate it slightly so that the rivets will come to rest

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in the holes. This can more easily be done by use of a pair of pincers or a scriber. Align the diaphragm covering disc 48 with the screw holes and secure it by means of the three screws 47.

Fit the diaphragm spring 56 on the bearing rivet, place the long arm against the rivet of the diaphragm disc and the short arm against the bottom rivet.

The diaphragm blades 49 and the diaphragm disc 50 must move so easily that they can be moved by the action of the diaphragm spring.

8. Flash Contact System

The shutter is X synchronized, i. e. the contact is closed at the position when the shutter blades in opening have to travel another 1.5 to 2 mm to clear the aperture. When the shutter completes its cycle, the contact arm 107 of the drive ring 44 presses the contact spring 100 against the flash contact pin riveted into the wall of the housing and forms a live connection.

Defect Cause

Cause of the Defect

1. Although the 1a. The contact is not flash equip- closed, as the ment is in contact arm 107 of proper work- the drive ring 44 ing condition, is bent out of the flash is position. not fired.

Correction

1a. Adjust the contact arm 107 or replace the drive ring 44.

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Defect

Cause of the Defect

- 1b. Drive ring 44 is not properly fitted into position; contact arm 107 is located between the contact spring 100 and the flash contact pin.
- 2. Contact 2.

 making does

 not occur

 at the proper

 position of

 the opening

 travel of the

 shutter blades.
- 2. Contact arm 107 is bent out of position.

Correction

- 1b. Fit in the drive ring 44 in such a manner that the contact arm 107 in being displaced presses the contact spring 100 against the flash contact pin.
 - 2. See 1a.

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Calmbach/Enz

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Ersatzteilliste Grundmodell I-10

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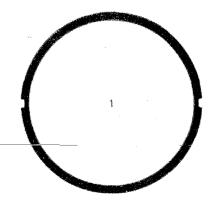
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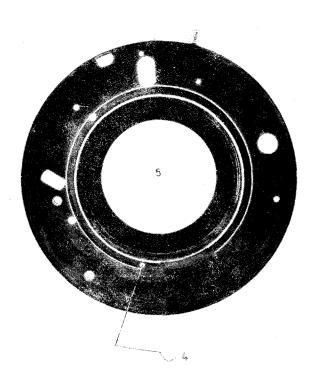
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PRONTOR - PRESS I-10

Gefertigt

9. 3. 65 *fe.*

Blatt Nr.

Pos.	Teil	- Nr.	Stück	Benennung								
1	IJRX5p	- 239.1	1	Frontplattenring front plate ring								
2	I - 10	- 143	1	Frontplatte ohne Bild front plate without illustration								
3	I - 10	- 137	1	Einstellring ohne Bild speed setting ring without illustration								
4	0376y	- 362	1	Rastenfeder notch spring								
5	I - 10	- U 1	1	Kapsel wird nicht abgegeben housing cannot be supplied								
6	7 000	884	1	Hemmwerkschraube screw for slow speed assembly								
7	7 002	002	1	Hemmwerkschraube screw for slow speed assembly								
8	I - 12	- G 20	1	Hemmwerk wird nur als Ganzes abgegeben slow speed assembly only complete unit can be supplied								
9	7 002	787	1	Zeithebellagerschraube B - lever bearing screw								
10	I - 10	- 119	1	Zeithebel B - lever								
11	I - 10	- 121	1	Zeithebelfeder B - lever spring								
12	7 002	139	1	Sektorenringschraube shutter blade ring screw								
13	IJRX5p3	- 127	1	Anschlagplatte stop plate								
14	IJRX5p	- 73	1	Gewindestift threaded pin								
15	7 002	977	1	Auslösrohrschraube cable release socket screw								
16	I - 12	- 123.1	1	Auslösrohr " A " cable release socket " A "								
17	I - 12	- U124	1	Auslösstift cable release socket pin								
18	7, 000	985	1	Lagerbrückenschraube bearing bridge screw								
19	7 002	228	1	Lagerbrückenschraube bearing bridge screw								
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PRONTOR-PRESS I-10

Gefertigt

9. 3. 65 *fe*.

Blatt Nr.

			
Pos.	Teil – Nr.	Stück	Benennung
20	I - 10 - U361	1	Lagerbrücke bearing bridge
21	I - 10 - 682	7	Spannklinkenfeder cocking latch spring
22	IJRX5p - 133	1	Sektorenringfeder shutter blade ring spring
23	I - 10 - 130	1	Auslöserfeder release spring
24	I - 10 - U 85	1	Auslöser release
25	IJRX5p - 73	2	Gewindestift threaded pin
26	IJRX5q - 72a	1	Auslössohr " B " cable release socket " B "
27	IJRX5p - 74a	1	Auslösstift " B " cable release socket pin " B "
28	7 002 294	1	Ringhebelschraube ring lever screw
29	I - 12 - U 67	1	Ringhebel ring lever
30	7 002 457	1	Zuziehfederschraube closing spring screw
31	IJRX5 - 107	1	Antriebringfeder drive ring spring
32.	IJRX5 - 70	1	Treibklinkenfeder driving latch spring
33	0JR10 - 102.1	1	Treibhebelschraube drive lever screw
34	JRI - 64	1	Bremsklinkenfeder brake latch spring
35	IJRX5p - U 63	1	Treibhebel drìve lever
36	IJRX5 - 103	1	Treibfeder drive spring
37	7 001 416	1	Regulierhebelschraube adjusting lever screw
3 8	IJRX5 - U 45	1	Regulierhebel adjusting lever
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PRONTOR-PRESS

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Pos.	Teil – Nr.	Stück	Benennung	
3 9	3114-20-3220	The second secon	Bremshebolschraube brake lever screw	
40	IJRX5 - U 34.1		Bremshebel brake lever	
41	OJRX5 - 78	1	Unterlegscheibe für Bremshebel washer for brake lever	
42	7 000 073	2	Einstellbagenschraube scale band screw	
43	I = 10 = 134	4-	Einstellbogen ohne Bild scale band without illustration	
£. [.}	I - 16 - 5 80	A. Carlotte To Table 1997	Antricoring drive ring	
45	I - 10 - U685	CONTROL SOCIETY SOCIET	Sertorenring shuttor blade ring	
46	IJRX5 - 61	CONTRACTOR OF THE CONTRACTOR O	Sektor shutter blade	
47	7 002 941	3	Iriadockscheibenschraube diaphraga covering disc screw	
48	I - 10 - 10	1	Irisdockscheibe disphragm covering disc	
49	I = 10 = U 5	5	Elendensektor disphrage shutter blade	
50	I - 10 - U 8		Irisscheibe diaphragm disc	
51	7 - 001 - 428	2	pottom screw	
52	7 001 431	3	Halteschraube für Iriszeigerring holding screw for diaphragm pointer ring	
53	I = 10 - 13	1	Friktionsfeder friction spring	
54	7 002 876	2	Anschlagechreube für leiszeigerring stop screw for diaphragm pointer ring	
55	7 002 002	2	Bodenschraube bottom screw	
56	I - 10 - 766	1	Blendenfeder diaphragm spring	
57	I - 10 - U 2	1	Boden wird nicht abgegeben bottom cannot be supplied	A COLUMN CONTRACTOR OF THE COLUMN CONTRACTOR OF THE COLUMN
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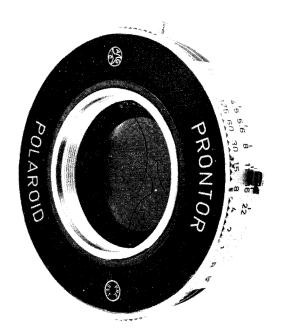
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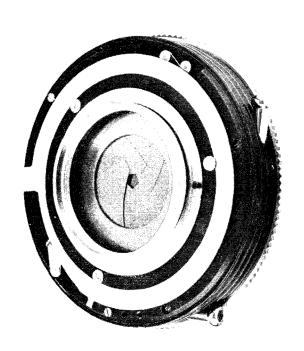
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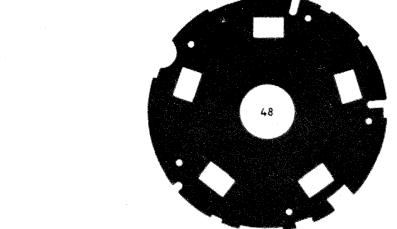
Geprüft

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9. 3.65 4 Ersatzteilliste Gefertigt PRONTOR - PRESS Blatt Nr. 2 I-10 p Geprüft



I-10p /2

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PRONTOR - PRESS

I -10 p

Gefertigt

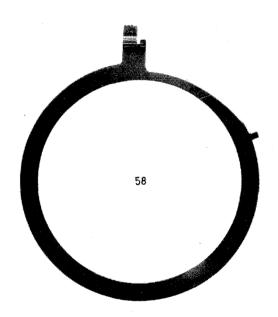
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Geprüft

Blatt Nr.

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1-10p /3

PRONTOR - PRESS

I - 10p

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Geprüft Blatt Nr.

			and the second
Pos.	Teil - Nr.	Stück	Benennung
2	I - 10p - 143	1	Frontplatte an Stelle von I - 10 - 143 front plate inst. of I - 10 - 143
3	I - 10p - 137	1	Einstellring an Stelle von I - 10 - 137 speed setting ring inst. of I - 10 - 137
5	I - 10p - U 1	1	Kapsel ohne Bild wird nicht abgegeben an Stelle von I - 10 - U1 housing without illustration cannot be supplied inst. of I - 10 - U1
12	7 002 445	1	Sektorenringschraube an Stelle von 7 002 139 shutter blade ring screw inst. of 7 002 139
16	I - 12p - 123	7	Auslösrohr "A" an Stelle von I - 12 - 123.1 cable release socket "A" inst. of I - 12 - 123.1
26	IJRX5p - 72a	1	Auslösrohr "B" an Stelle von IJRX5q - 72a cable release socket "B" inst. of IJRX5q - 72a
43	I - 10p - 134	1	Einstellbogen an Stelle von I - 10 - 134 scale band inst. of I - 10 - 134
44	I - 10p - U 80	1	Antriebring an Stelle von I - 10 - U 80 drive ring inst. of I - 10 - U 80
46	IJRX5p - 61	5	Sektor an Stelle von IJRX5 - 61 shutter blade inst. of IJRX5 - 61
48	I - 10p - 10	1	Irisdeckscheibe an Stelle von I - 10 - 10 diaphragm covering disc inst. of I - 10 - 10
50	I - 10p - U 8	1	Irisscheibe an Stelle von I - 10 - U 8 diaphragm disc inst. of I - 10 - U 8
50a	7 002 953	1	Fixierschraube locating screw
57	I - 10p - U 2	1	Boden ohne Bild wird nicht abgegeben an Stelle von I - 10 - U2 bottom without illustration cannot be supplied inst. of I - 10 - U2
58	I - 10p - 7	1	<u>Iriszeigerring</u> an Stelle von I - 10 - 7 diaphragm pointer ring inst. of I - 10 - 7
59	IJRX5p - 164	1	Anschraubring flange
		A PROPERTY OF THE PROPERTY OF	
		·	Die übrigen Teile nach Grundmodell I - 10 The remaining parts as per basic model I - 10
		Topic and the second	
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PRONTOR - PRESS I-10 p1

Fa. Polaroid ÚSA

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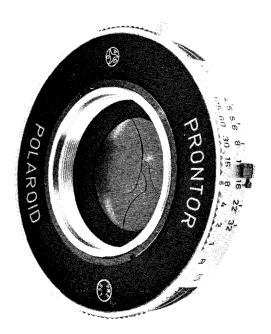
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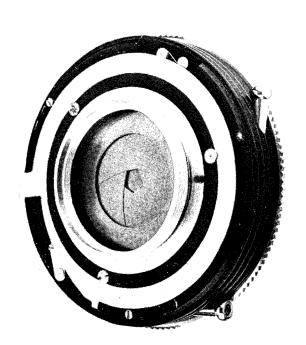
Liste best.aus Blatt 1 - 4

Blatt Nr.

Kamera:

Optik/Lens: Ysaron 1:4,5 / 105





9. 3. 65 fe. Ersatzteilliste Gefertigt Blatt Nr. 2 PRONTOR - PRESS I-10 p1 Geprüft 43 46

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t -10 pt 72

PRONTOR - PRESS

I-10 p1

Gefertigt

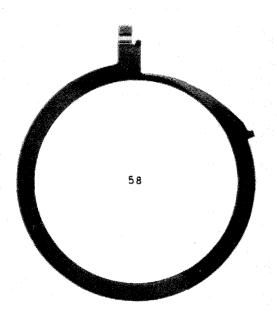
9. 3. 65 fe.

Geprüft

Blatt Nr.



50 a





1-10 pt /3

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PRONTOR - PRESS I-10 p1

9. 3.65 *fe* Gefertigt

Blatt Nr. Geprüft

	PRUNI	UK	-PRESS I-IUDI Geprüft 4
Pos.	Teil – Nr.	Stück	Benennung
2	I - 10p - 143	1	Frontplatte an Stelle von I - 10 - 143 front plate inst. of I - 10 - 143
. 3	I - 10p - 137 ·	1	Einstellring an Stelle von I - 10 - 137 speed setting ring inst. of I - 10 - 137
5	I - 10p - U 1	1	Kapsel ohne Bild wird nicht abgegeben an Stelle von I - 10 - U1 housing without illustration cannot be supplied inst. of I - 10 - U1
12	7 002 445	. 1	Sektorenringschraube an Stelle von 7 002 139 shutter blade ring screw inst. of 7 002 139
16	I - 12p - 123	1	Auslösrohr "A" an Stelle von I - 12 - 123.1 cable release socket "A" inst. of I - 12 - 123.1
26	IJRX5p - 72a	1	Auslösrohr "B" an Stelle von IJRX5q - 72a cable release socket "B" inst. of IJRX5q - 72a
43	I - 10p1 - 134	1	Einstellbogen an Stelle von I - 10 - 134 scale band inst. of I - 10 - 134
44	I - 10p - U 80	1	Antriebring an Stelle von I - 10 - U 80 drive ring inst. of I - 10 - U 80
46	IJRX5p - 61	5	Sektor an Stelle von IJRX5 - 61 shutter blade inst. of IJRX5 - 61
48	I - 10p1 - 10	1	Irisdeckscheibe an Stelle von I - 10 - 10 diaphragm covering disc inst. of I - 10 - 10
50	I + 10p - U 8	1	Irisscheibe an Stelle von I - 10 - U 8 diaphragm disc inst. of I - 10 - U 8
50a	7 002 953	1	Fixierschraube locating screw
57	I - 10p + U 2	1	Boden ohne Bild wird nicht abgegeben an Stelle von I - 10 - U2 bottom without illustration cannot be supplied inst. of I - 10 - U2
58	I - 10p1 - 7	1	Iriszeigerring an Stelle von I - 10 - 7 diaphragm pointer ring inst. of I - 10 - 7
59	IJRX5p - 164	1	Anschraubring flange
			Die übrigen Teile nach Grundmodell I - 10 The remaining parts as per basic model I - 10
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PRONTOR-PRESS I-10p2

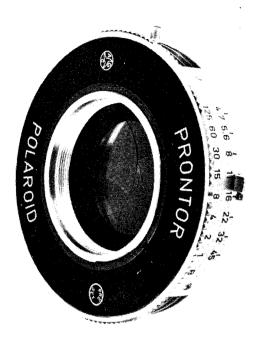
Fa. Polaroid USA

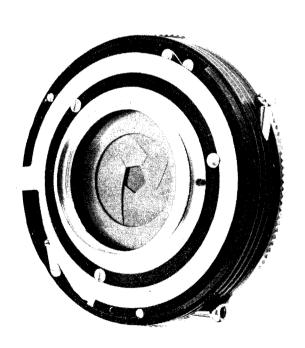
Kamera:

Optik/Lens: Ysarex 1:4.7 /127

Liste best aus Blatt 1 - 4 Anz.derÄnd.Bl.

Gefertigt 9.3.65 fe. Geprüft Blatt Nr.





9. 3.65 *fe* Ersatzteilliste Gefertigt Blatt Nr. 2 PRONTOR-PRESS I -10 p2 Geprüft 12 16 43

1-10p2 /2

PRONTOR - PRESS

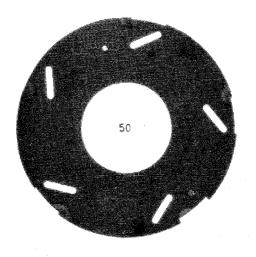
I-10 p2

Gefertigt

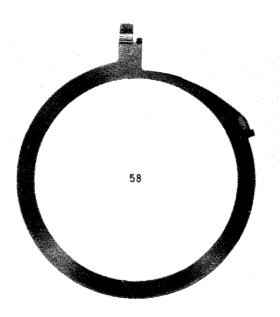
9.3.65 fe.

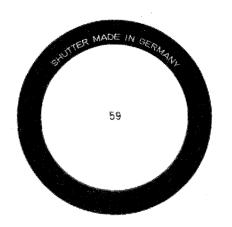
Geprüft

Blatt Nr. 3



50a





1-10p2 /3

PRONTOR - PRESS I-10 p2

Gefertigt

9. 3. 65

Geprüft

Blatt Nr.

L		INON	OIN	FRE33 1-10 pz Gepruit	4
F	os.	. Teil – Nr. Stück		Benennung	
	2	I - 10p - 143	1	Frontplatte an Stelle von I = 10 = 143 front plate inst. of I = 10 = 143	
	3	I - 10p - 137	1	Einstellring an Stelle von I = 10 = 137 speed setting ring inst. of I = 10 = 137	
	5	I - 10p - U 1	1	Kapsel ohne Bild wird nicht abgegeben an Stelle von I - 10 housing without illustration cannot be supplied inst. of I - 10	- U 1 - U 1
	12	7 002 445	1	Sektorenringschraube an Stelle von 7 002 139 shutter blade ring screw inst. of 7 002 139	
	16	I - 12p - 123	1	Auslösrohr "A" an Stelle von I - 12 - 123.1 cable release socket "A" inst. of I - 12 - 123.1	
	26	IJRX5p - 72a	1	Auslösrohr "B" an Stelle von IJRX5q - 72a cable release socket "B" inst. of IJRX5q - 72a	
	43	I - 10p2 - 134	1	Einstellbogen an Stelle von I = 10 - 134 scale band inst. of I = 10 - 134	
	44	I - 10p - U 80	1	Antriebring an Stelle von I - 10 - U 80 drive ring inst. of I - 10 - U 80	
	46	IJRX5p - 61	5	Sektoran Stelle von IJRX5 - 61shutter bladeinst. of IJRX5 - 61	5 % · · ·
	48	I - 10p2 - 10	1	Irisdeckscheibe an Stelle von I = 10 = 10 diaphragm covering disc inst. of I = 10 = 10	
	50	I - 10p - U 8	1	Irisscheibe an Stelle von I - 10 - U 8 diaphragm disc inst. of I - 10 - U 8	
	50a	7 002 953	4	Fixierschraube locating screw	
	57	I - 10p - U 2	1	Boden ohne Bild wird nicht abgegeben an Stelle von I - 10 obttom without illustration cannot be supplied inst. of I - 10	
	58	I - 10p2 - 7	1	Iriszeigerring an Stelle von I - 10 - 7 diaphragm pointer ring inst. of I - 10 - 7	
	59	IJRX5p - 164	7	Anschraubring flange	
				Die übrigen Teile nach Grundmodell I - 10 The remaining parts as per basic model I - 10	

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Service Instructions for PRONTOR Shutters
Models PRONTOR-PRESS I-12p and I-12p1

1. General Introductory Remarks

The purpose of these service instructions is to assist repairmen in handling repairs rapidly, efficiently, reliably and without any appreciable difficulties. The instructions start with a description of the operation of the shutter and it is advisable to read this paragraph carefully, for the knowledge of the functions of the individual components is the basis for understanding the co-ordinated operation of all components in the PRONTOR-PRESS shutter.

Notes

- a) The PRONTOR-PRESS shutter can only be dismantled after it has previously been removed from the camera.
- b) The numbers used in the text are the line item numbers in the spare parts list.
- c) A reference to right or left in the service instructions refers to the position shown in the illustrations in the spare parts list.

All parts shown in the spare parts list are shown in the position as assembled in the shutter, so that in case of doubt they can be used as reference.

a) Tools for the Repair

Apart from the front plate wrench MV 100 and the lever bending tool A2 there are no other special tools required for dismantling and repairing a shutter.

In selecting the screwdrivers it is important, however, to select the right size for the various screws. Wherever screwdrivers of improper size are used, chances are that the slots in the screws will be damaged.



b) Lubricants

The manufacturer lubricates the shutter by means of special pastes at all positions requiring lubrication and this lubrication can be regarded as life-time lubrication. In doing repair work lubrication is only necessary where parts have been washed or been replaced by new ones.

From the attached lubrication diagram it can be seen at what points the shutter components have to be lubricated and what lubricant is to be used.

Note

In lubricating the shutter, lubricants other than those indicated in the lubrication diagram must not be used. Oil or grease must not be used in the shutter. The repairman must see that there will be no accumulation of lubricants on edges, in openings and holes. If necessary the excessive lubricant must be wiped off.

c) Spare Parts

If in repairing a shutter it is necessary to replace parts, only

factory-made spare parts

should be used. These parts can be ordered by using the attached spare parts list as reference. In this respect it is necessary to indicate the exact designation and the part number given in the spare parts list, for this is the only way to insure that the correct replacement parts will be supplied.

2. Mode of Operation

By actuating the tripping lever 21 (or the cable release) the PRONTOR-PRESS single-action shutter is cocked and tripped. When the cocking lever is actuated, the cocking latch 102



PHOTOGRAPHIC SHUTTERS

- pivotally riveted to the tripping lever 21, strikes the stop lug of the drive lever 31 and displaces the latter radially toward the rim of the shutter. An integral raised lug of the drive lever 31 strikes a star-shaped locking lever 108 riveted to the shutter blade ring 41, which locks the drive ring 40, and displaces this ring toward the rim of the shutter. At the same time the brake latch 104 pivotally riveted to the driving lever 31, slides along the abutment of the brake lever 36 toward the nozzle. Just before the end of the cocking travel the driving latch 104 riveted to the driving lever, engages the ring lever; and the cocking latch 102 displaces the lever 27, preventing the tripping of the shutter, toward the rim of the shutter, then the driving lever 31 becomes disengaged and the shutter completes its cycle.

The shutter cycle involves the following operations:

During the return travel of the drive lever 31 the driving latch 103 displaces the ring lever 24 and the drive ring 40 connected to it, the shutter blades 43 open and depending upon the previously set shutter speed, the cycle is delayed by the action of the slow speed assembly 8 and of the brake lever 36 (see speed setting system).

The brake lever 36 returning to its original position while the shutter completes its cycle, disengages the braking latch 104, while simultaneously the ring lever 24 driven by the driving latch 103, returns the driving ring 40 to its starting position - the shutter blades close and the star-shaped locking lever 108 engages the drive ring lug and thus prevents bouncing of the shutter blades 43.

When the tripping lever 21 becomes disengaged, the ring lever 24 becomes again engaged by the tripping prevention lever 27.



b) Time Exposures "B" or "T"

When set for instantaneous speedsthe locking lever 11 and the B lever 10 resting against the locking lever are displaced toward the rim of the shutter by the integral control slot of the setting ring 3 to such an extent that the driving lever 31 slips past.

Setting "B"

When the setting ring 2 is rotated to the position "B", the locking lever becomes disengaged to such an extent that the B lever 10 rests only against the raised lug of the tripping lever 21.

When the shutter completes its cycle, the B lever 10 travels in the direction of the nozzle, so that the drive lever 31 is stopped in operation and kept in position when the shutter blades are completely opened. During the return travel the raised lug of the tripping lever 21 is displaced toward the rim of the shutter and the driving lever 31 becomes disengaged permitting the shutter to complete its cycle and the shutter blades to close.

Setting "T"

When the shutter is set for "T" the locking lever 11 is completely disengaged from the setting ring and rests against the driving lever 31. Similar to setting "B", when the shutter completes its cycle, the B lever 10 stops the driving lever 31 when the shutter blades are open, while the locking lever 11, still resting against the raised lug of the tripping lever 21, has not returned to its original position.



Permitting the tripping lever 21 to return to its original position entails the following operations:

The locking lever 11 and the B lever 10 are simultaneously moved by the raised lug of the tripping lever 21. While the locking lever, which is a little shorter than the B lever 10, moves right in front of the abutment of the driving lever 31, the B lever is displaced toward the rim of the shutter, so that the driving lever 31 rests only against the locking lever 11.

The tripping lever 21 is caught by the integral locking abutment of the locking lever 11, so that the cycle of the shutter is interrupted and the shutter blades stay open. A repeated actuation of the tripping lever 21 in the cocking direction causes the locking lever 11 to be likewise displaced toward the rim of the shutter, the driving lever 31 becomes disengaged, the shutter completes its cycle and the shutter blades 43 close.

3. Dismantling and Re-assembling the Shutter

a) Dismantling the Shutter

After removing the four bottom screws 49, the bottom 50 together with the diaphragm system can be lifted off (for details please see diaphragm system - sheet 11).

The shutter blades 43 can be lifted off immediately. The star-shaped locking lever 106 has to be seized by use of a pair of pincers and moved a little bit toward the rim of the shutter thus making the shutter blade ring 41 accessible and it can then be lifted off. The drive ring 40 must first be lifted slightly at the slow speed assembly 8 and then pulled out from underneath the ring lever 24.

The removal of the other parts is relatively easy and only in such cases where it is deemed necessary are details given in the descriptions of the individual systems.



Note

Should it be necessary to remove the front plate 2, the setting ring 3, or the detent notch spring 4, the front plate ring 1 must first be removed by means of the front plate ring wrench MV 100.

b) Re-assembling the Shutter

In general, attention must be given that in re-assembling the shutter no levers will be bent and no springs stretched, as otherwise there will be no assurance of a proper shutter function.

Further details will be given in the descriptions of the individual systems.

4. Cocking and Tripping System

The mode of operation of the cocking and tripping system has already been described in section 2. The following paragraph contains instructions on how to replace parts, on the assembly and on the correction of defects.

a) Replacing Tripping Lever and Driving Latch

The B and locking lever spring 20 is unhooked from the B lever by use of a pair of pincers. Similarly the driving spring is unhooked from the driving lever 31. Then after loosening the locking lever screw 9, the locking lever 11 and the B lever 10 and after removing the driving lever screw 29, the driving lever 31 is removed from the shutter. When removing the bearing bridge screw 17, the driving latch spring 22 must be held in position by use of a pair of pincers to avoid flipping off of the spring. After removing the bearing bridge 18, the tripping lever 21 and the driving latch 102 become accessible and can be removed from the shutter after the tripping spring has previously been unhooked.



PHOTOGRAPHIC SHUTTERS

b) In assembling the shutter the repairman must first see to it that the cable release socket pin 15 is in the cable release socket 14. Then the tripping lever 21 together with the hooked-up tripping spring 21a is fitted into the shutter. The spacing bushing 19 and then the bearing bridge 18 are placed in position and screwed on by means of the bearing bridge screw 16.

The cocking latch spring 22 has to be placed over the spacing bushing 19 and to be held by use of a pair of pincers in such a manner that both arms of the spring are held in position. Slide the spacing bushing 19 and the driving latch spring 22 under the bearing bridge 18 and fit in and tighten the bearing bridge screw 17. The long arm of the spring must be placed against the rivet underneath the driving latch spring 102. To fit in the driving lever 31, the ring lever 24 and the tripping prevention lever 27 have to be turned toward the right (clockwise) and placed against the wall of the housing.

Tighten the B and locking levers 10 and 11. Remove the B and locking lever spring 20 from the bearing bridge, place one spring arm into the hole drilled for the spring in the locking lever 11, push it back onto the bearing rivet and place the other spring arm against the lug of the B lever 10.

Note

During the initial period of the manufacture the shutters were only fitted with the driving latch spring 22 (part no. IJRX5-93). When the driving latch spring 22 was modified and fitted into the shutter by means of a spacing bushing 19, the shutter was also fitted with the tripping spring 21a. The cycle of operations of the shutters that are only fitted with the driving latch spring 22, is the same as previously described in section b and only the assembly is slightly different.



PHOTOGRAPHIC SHUTTERS

	efect
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1. Shutter does not cock.

1b Shutter does

not cock.

Cause of the Defect

- 1. Driving latch spring 22 does not rest against the spring rivet.
- 1b Tripping prevention lever 27 does not rest against the ring lever 24, so that the cocking latch 102 is blocked.
- 2. Tripping lever 2.
 21 does not or
 only very reluctantly return
 to its starting
 position.
- 3. Shutter cocks but does not trip.
- 2. Tripping lever spring
 21a is not hooked up
 or may be stretched.
- 3a Driving latch spring
 is not placed in
 position.

3b The ring lever 24 is not in the recessed portion of the drive ring 40.

Correction

- 1. Seize the cocking latch spring 22 and place it against the spring rivet of the driving latch 102.
- 1b Rotate the tripping prevention lever 27 clockwise to such an extent that during the return travel it is stopped by the ring lever 24.
- 2. Hook up or replace tripping lever spring 21a.
- 3a Insert the driving latch spring 28 into the drilled hole of the driving latch and place the other spring arm against the rivet for the driving spring 32.
- 3b Properly fit in the drive ring 40 (see shutter blade system).



Defect

4. When set for 4 slower instantantaneous speeds the shutter completes its cycle, i. e. although the shutter has been set for a speed of 1 sec. the shutter blades close immediately.

Cause of the Defect

4. The driving spring 32 is not properly hooked up.

Correction

4. Hook up the driving spring 32.

5. Slow Speed Assembly and Speed Setting System

By rotating the setting ring 3 both the engagement of the brake lever 36 and the engagement and disengagement of the escapement are controlled. Whereas the shutter speeds from 1/60 to 1/15 sec. are attained exclusively by action of the gear train, for the speeds from 1/8 to 1 full second the escapement is brought into engagement.

The top speed of 1/125 sec. is attained without engagement of either the escapement or the gear train.

The integral speed control cam of the speed setting ring 3 governs the starting position of the brake lever 36 controlling the exposure time. Before the slow speed assembly 8 can be removed from the shutter, the brake lever 36 must be removed from the shutter, so that after the two fixing screws of the slow speed assembly 6 and 7 have been unscrewed, the slow speed assembly can be lifted off.

For fitting the slow speed assembly 8 into the shutter, the setting ring has to be rotated to the 1 sec. position. Then the slow speed assembly 8 can be fitted and screwed on.



PHOTOGRAPHIC SHUTTERS

The brake lever 36 must be placed on the bearing pin of the gear segment. The washer must be placed on the threaded hole and the brake lever 36 goes on top of it and is screwed into position. Place the brake lever spring 101 into the groove of the brake lever screw 35 and against the rivet of the gear segment.

Defect

Cause of the Defect

Correction

- slower instantaneous speeds the shutter completes its cycle instantly. Please also see defect 4 in the cocking and tripping system.
- 1. When set for 1. Brake lever spring 101 does not rest in position, so that the brake lever 36 cannot stop the braking latch 104.
- 1. Place brake lever spring 101 against the gear segment and against the brake lever screw as described in paragraph 5.
- 2. Shutter speeds 2. Brake lever 36 does are slower than not move easily; provided for by washer 37 has been the program. omitted.
- 2. Remove the brake lever 36 and reinstall it together with washer 37.

Hint for Making Adjustments

The shutter speeds can be adjusted by filing or swaging the integral speed control cam of the setting ring. The shutter speeds can only be accurately tested by use of a shutter speed tester.



6. Shutter Blade System

Assembly

Place the driving ring 40 with the recessed portion under the ring lever 24 in such a manner that the rivet will fit into the recess. It must be noted that the contact lug 107 is located before the contact spring 100 and that the pin of the escapement lever comes to rest against the abutment 106. Seize the star-shaped locking lever 106 by use of a pair of pincers as described in section 3a, move it toward the rim of the shutter and fit in the shutter blade ring 41 in such a manner that the locking lever screw 9 will be accepted by the small rectangular hole.

For assembling the shutter blades 43, rotate the setting ring to "T" and trip the shutter once. Starting from the cable release socket 14, the shutter blades must be assembled clockwise, with the last shutter blade coming to rest on top of the first one. Then the bottom with the diaphragm system must be placed on and screwed in position.

Note

Shutter blades and diaphragm blades must be handled with particular care and protected against fingerprints. As a rule diaphragm blades and shutter blades that are not in perfect condition should be replaced. Diaphragm blades and shutter blades should never be oiled or greased.

7. Diaphragm System

After removing the diaphragm covering disc 45 mounted to the bottom 40 of the shutter by means of three screws, the diaphragm blades become accessible.



Assembly

Place the diaphragm covering disc 45 in front of you as illustrated in the spare parts list and assemble the diaphragm blades clockwise so that the rivets project into the drilled holes. Open or close the diaphragm blades in such a manner that they form a circle of the same diameter as the opening. Fit the diaphragm pointer disc 48 into the bottom 50 of the shutter and rotate it so that the pointer as seen from the nozzle will come to a stop in a clockwise direction. Adjust the diaphragm covering disc 47 and the bottom 50 according to the threaded holes and place the bottom together with the diaphragm pointer disc on top of the diaphragm covering disc with the diaphragm blades.

A slight rotation of the diaphragm covering disc 48 causes the rivets to project into the slots of the diaphragm pointer disc and that the diaphragm covering disc can be screwed to the bottom.

Defect Cause of the Defect Correction

- 1. Diaphragm pointer 1a. The diaphragm pointer 1a. Fit in new disc 48 does not disc or the diaphragm discs. move easily. covering disc is bent out of position.
 - 1b. Diaphragm blades 1b.Replace diaphragm are damaged. blades.

8. Flash Contact System

When the shutter completes its cycle, the contact 107 of the drive ring 40 presses the flash contact spring 100 against the strobe connector riveted into the wall of the shutter housing and thus forms a live connection.



Defect

1. With the flash equipment in proper working condition, it does not fire.

Cause of the Defect

- 1a. The contact is not closed, because the contact lug 102 of the driving ring is bent out of position.
- 1b. Drive ring 40 is not 1b. Fit in the properly installed; contact lug 107 is located between flash contact spring 100 and contact pin.

Correction

- 1a. Adjust the contact lug 107 or replace the drive ring 40.
 - driving ring 40 in such a manner that when the driving ring is rotated the contact lug 107 presses the flash contact spring 100 against the strobe connector.
- 1c. Flash contact spring 1c. Adjust the flash 100 is bent out of position.
 - contact spring 100.

- 2. Contact does take place at the moment when the shutter blades reach the proper position.
- 2. Contact lug 107 is bent out of position.
- 2. see 1a.



PRONTOR-PRESS I-12 LUBRICATION DIAGRAM

Item No.	Designation	Lubricant	Lubrication Aids	Remarks - Lubrication Points
3	Setting ring	Losoid 70		Inside diameter, control slots and bearing surfaces on both sides
5	Housing	BR 2	MV 160/2	Tripping lever 21, bearing bushing
	`	Molykote paste G rapid		Drive ring seat
10	B lever	BR 2	Brush	Bearing hole, supporting
11	Locking lever	BR 2	Brush	surface and stop abut- ment for the drive lever 31
14	Cable release socket	Losoid 70	MV 161/3	Drilled hole
15	Cable release socket pin	G rapid		Drive surface
24	Ring lever	G rapid		Bearing hole
26	Spring of the tripping prevention lever	Losoid 70	Grease pad	
28	Driving latch spring	Losoid 70	Grease pad	
31	Driving lever	BR 2	Brush	Bearing hole and driving edge
36	Brake lever	BR 2	MV 161/4	Drilled hole
, -			Brush	Stopping abutment
40	Drive ring	G rapid		Recess for ring lever rivet
		BR 2	Brush	Disconnecting lug 106
102	Cocking latch			Point of impact of the tripping pin
		BR 2	Brush	Driving edge
103	Driving latch	G rapid	Brush	Recess accepting the rivet of the ring lever



BR 2 and G rapid are Molykote pastes.

Grease pad - a piece of felt impregnated with a lubricant.

To introduce the lubricants into the drilled holes please use either the lubricating awls (MV 161/...) referred to or metal sticks of the respective diameter.

Please note the instructions under 1b.

PRONTOR - PRESS

I - 12

Liste best.aus Blatt 1-7 Anz.derÄnd.Bl. 8 -

Gefertigt 26. 2. 65 fe. Geprüft

Blatt Nr.

Kamera:

Optik/Lens:





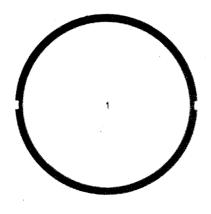
PRONTOR - PRESS I - 12

Gefertigt

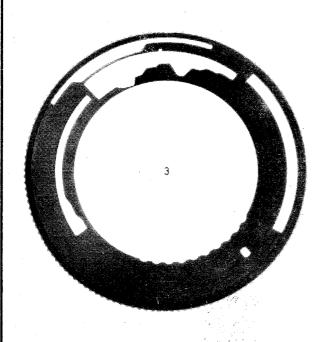
26. 2. 65 fe

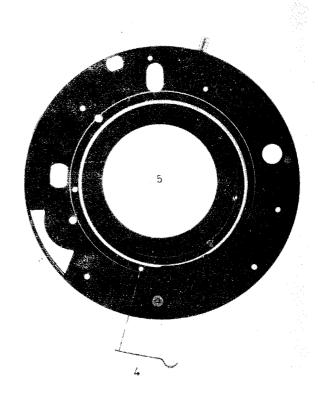
Geprüft

Blatt Nr. 2









1-12 / 2

26. 2.65 *fe* Ersatzteilliste Gefertigt Blatt Nr. 3 PRONTOR - PRESS I - 12 Geprüft ₩ 38 **O** 25 **±** 38 1-12/3 ALFRED GAUTHIER G.m.b.H. Calmbach/Enz

26. 2.65 fe. Ersatzteilliste Gefertigt Blatt Nr. PRONTOR - PRESS I - 12 Geprüft ¥ 44 48 46 **/** 49 50 49

ALFRED GAUTHIER G.m.b.H. Calmbach / Enz

1-12/4

4 49

Gefertigt

26. 2.65 fe.

PRONTOR - PRESS I - 12

Geprüft

Blatt Nr.

Pos.	Teil	– Nr.	Stück	Benennung
1	IJRX5p	- 239.1	1	Frontplattenring front plate ring
2	I - 12	- 143	1	Frontplatte front plate
3	I - 12	- 137	1	Einstellring speed setting ring
Ł,	0376y	- 362	1	Rastenfeder notch spring
5	I - 12	- U 1	1	Kapsel wird nicht abgegeben housing cannot be supplied
б	7 000	58 4	1	Hemmwerkschraube screw for slow speed assembly
7	7 002	002	1	Hemmwerkschraube screw for slow speed assembly
3	I - 12	- G 20	1	Hemmwerk wird nur als Ganzes abgegeben slow speed assembly cnly complete unit can be supplied
9	7 000	616	1	Sperrhebelschraube locking lever screw
10	I - 12	- 11 9	1	Zeithebel B - 1ever
11	I - 12	- U122	1	Sperrhebel locking lever
12	IJRX 5 p	~ 73	1	Gewindestift threaded pin
13	7 002	026	1	Auslösrohrschraube cable release socket screw
14	I - 12	- 123.1	1	Auslösrohr cable release socket
15	1 - 12	- U124	1	Auslösstift cable release socket pin
16	7 002	992	1	Lagerbrückenschraube bearing bridge screw
17	7 001	443	1	Lagerbrückenschraube bearing bridge screw
18	I - 12	- U361	7	Lagerbrücke bearing bridge
19	I - 13	- 464	2	D istanzbüchse distance bushing
			ALF	RED GAUTHIER G.m.b.H. Calmbach / Enz

Gefertigt

26. 2.65 *fe.*

igt 26. 2.65

PRONTOR - PRESS I

I - 12

Gepriitt

Blatt Nr.

	Stück	Benennu
7 40 404 4		
I - 12 - 121.1	1	Zeit und Sperrhebolfoder B and locking lever spring
I - 12 - U 85		Auglőser relegsa
I - 12 - 682	ALCONOMISSO TO THE STATE OF THE	Spannklinkenfeder cooking laten spring
7 002 294	CONTRACTOR	Singhebelschraube ring lever screw
I - 12 - 0 67		Ringhebel ring lever
7 000 604	THE CHARLES WE SHALL SHOW THE SHALL	Ausläsesperrhebelschraubc release stop lever scrow
I - 12 - 159	4	Auslösesperrhebelfeder release stop lever screw
I - 12 - 156	(Ausläsesperrhebel release stop laver
I J RX5 - 70	1	Treibklinkenfader driving latch spring
OUR10 - 102,1	1	Freibhobelschraube drive lover screw
JRI - 64	Ame American State of the State	Bromsklinkenfoder brake latch spring
I - 12 - U 96	ACCUPATION NAME OF THE PROPERTY OF	Treibhebel drive lever
I - 12 - 132	7	Treibfeder drive spring
7 001 416	1	Regulierhebelsonraube adjusting lever spring
IJRX5 • U 45	Commission Constitution Co.	Regulierhebel adjusting lever
3114 - 25 - 3220	4	Beemshebelschraube brake lever screw
IJRX5 - U 34.1	THEORY COMMON	Bremshebel brake lever
OJRX5 ~ 78	den.	Unterlegscheibe für Bremshebel washer for brake lever
7 000 073	2	Einstellbogenschraube scale band screw
	I - 12 - 682 7 002 294 I - 12 - 0 67 7 000 604 I - 12 - 159 I - 12 - 156 IJRX5 - 70 OJR10 - 102.1 JRI - 64 I - 12 - 0 96 I - 12 - 132 7 001 416 IJRX5 - 0 45 JRX5 - 0 45 JRX5 - 0 45 JRX5 - 0 3220 IJRX5 - 0 34.1 OJRX5 - 78	I - 12 - 682 1 7 002 294 1 I - 12 - 0 67 1 7 000 604 1 I - 12 - 159 4 I - 12 - 156 7 UNR10 - 102-1 1 JRI - 64 1 I - 12 - 0 96 1 I - 12 - 132 1 JRX5 - 0 45 1 IJRX5 - 0 45 1

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PRONTOR - PRESS I - 12

26. 2.65 *fe* Gefertigt

Blatt Nr.

Pos.	Teil – Nr.	Stück	Benennung
. 03.	IGIL IN.	Piuck	benemony
39	I - 12 - 134	1	Einstellbogen scale band
40	I - 12 - U 80	7	Antriebring drive ring
41	I - 12 - U685.1	4	Sektorenring shutter blade ring
42	I - 12 - 971	1	Sternsperrhebelfeder drive ring lock spring
43	IJRX5 - 61	6	Sektor shutter blade
44	7 002 002	3	Irisdeckscheibenschraube diaphragm covering disc screw
45	IJRX5 - 8.2	1	Irisdeckscheibe diaphragm covering disc
46	IJRX5p - 591	1	Federring spring ring
47	I - 12 - U 5	10	Irislamelle diaphragm blade
48	I - 12 - 7	1	Iriszeigerscheibe diaphragm pointerdisc
49	7 001 443	4	Bodenschraube bottom screw
50	I - 12 - 2	1	Boden wird nicht abgegeben bottom cannot be supplied
51	JRI - 71	1	Anschraubring flange
	· .		
		EX. CHARLES CONTRACTOR	Die Positionszahlen über 100 beziehen sich auf den Text der Reparatur - Hinweise The index numbers above 100 refer to the text of the "Instructions for Repair Shops
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ALFRED GAUTHIER G.m.b.H. Calmbach / Enz

Ersatzteilliste Geänderte Teile / Changed parts

Gefertigt

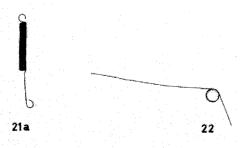
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PRONTOR - PRESS

I -12

Geprüft

Blatt Nr.



I-12/8

		PRON	ITOR	- PRESS I - 12	G	eprüft	Bla
Pos.	Teil	- Nr.	Stück	And the second of the second s	Benennung		Är
21a	IJRX5	- 52	1	Auslöserfeder release spring		n I-12 - 682 I-12 - 682	
22	_IJRX5	- 93	1	Spannklinkenfeder cocking latch spring	an Stelle vo		
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					<u> </u>		
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PRONTOR-PRESS I-12 p Fa. Polaroid, USA

Kamera:

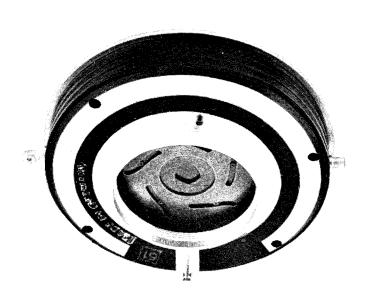
Optik/Lens: Ysaron 1:4,5/75

Liste best.aus Blatt 1-4 Anz. der Änd. Bl.

Gefertigt 26.2.65 # Geprüft

Blatt Nr.





PRONTOR - PRESS

I-12 p

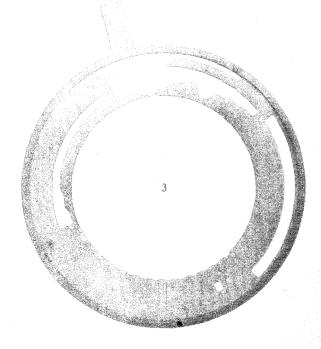
Gefertigt

26. 2.65 fe.

Geprüft

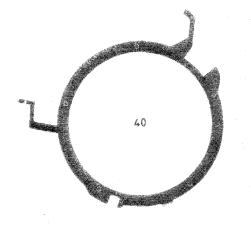
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14

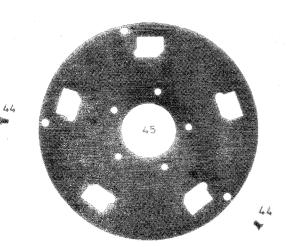


1 B 1 2 4 8 15 30 50 125

39

43





1 - 12 p / 2

PRONTOR-PRESS

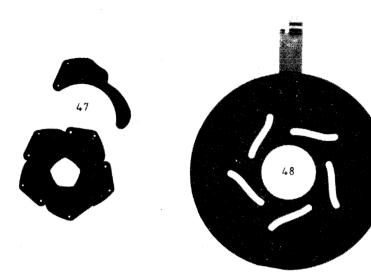
I -12p

Gefertigt

26.2.65 fe.

Geprüft

Blatt Nr. 3



49a





I -12p /3

PRONTOR - PRESS I - 12 p

Gefertigt 26. 2.65 fe.

Geprüft

Blatt Nr.

Pos.	Teil - Nr.	Stück		Benennung	
-	1011 1111	F		centermony	
2	I - 12p - 143	1	Frontplatte front plate	an Stelle von I ~ 12 - 143 inst. of I - 12 - 143	
3	I - 12p - 137	1	Einstellring speed setting ring	an Stelle von I - 12 - 137 inst. of I - 12 - 137	
5	I - 12p - U 1	1	Kapsel ohne Bild housing without illustration	wird nicht abgegeben an Stelle von I - 1 cannot be supplied inst. of I - 1	2 - U1 2 - U1
14	I - 12p - 123	1	Auslösrohr cable release socket	an Stelle von I - 12- 123.1 inst. of I - 12 - 123.1	
39	I - 12p - 134	7	Einstellbogen scale band	an Stelle von I - 12 - 134 inst. of I - 12 - 134	
40	I - 12p - U 80	1	Antriebring drive ring	an Stelle von I - 12 - U 80 inst. of I - 12 - U 80	-
43	IJRX5p - 61	6	Sektor shutter blade	an Stelle von IJRX5 - 61 inst. of IJRX5 - 61	
44	7 002 002	2	Irisdeckscheibenschraube diaphragm covering disc screw	an Stelle von 7 002 002 3 Stü inst. of 7 002 002 3 pcs	ck •
44a	7 002 561	1	Irisdeckscheibenschraube diaphragm covering disc screw		
45	I - 12p - 10	1	Irisdeckscheibe diaphragm covering disc	an Stelle von IJRX5 - 8.2 inst. of IJRX5 - 8.2	
47	476 - U 5	5	Irislamelle diaphragm blade	an Stelle von I - 12 - U 5 1 inst. of I - 12 - U 5 1	
48	I - 12p - U 7	1	Iriszeigerscheibe diaphragm pointer disc	an Stelle von I - î2 - 7 inst. of I - 12 - 7	
49a	7 002 953	1	fixierschraube locating screw		
50	I - 12p - 2	1	Boden ohne Bild bottom without illustration	wird nicht abgegeben an Stelle von I - 12 cannot be supplied inst. of I - 12	
50a	I - 12p - 7a	1	Blendenring diaphragm ring		<i>i</i> .
51	I - 12p - 141	. 1	Anschraubring flange	an Stelle von JRI - 71 inst, of JRI - 71	
			Die übrigen Teile nach Grundmod The remaining parts as per basi		
	-				

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G.m.b.H. Calmbach / Enz

PRONTOR-PRESS I-12p1

Fa. Polaroid , USA

Anz. der Änd. Bl. Gefertigt

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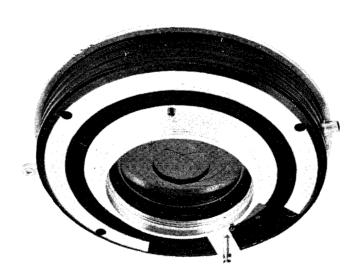
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Kamera:

Optik/Lens: Ysarex 1:4,7 /127





PRONTOR - PRESS I - 12 p1

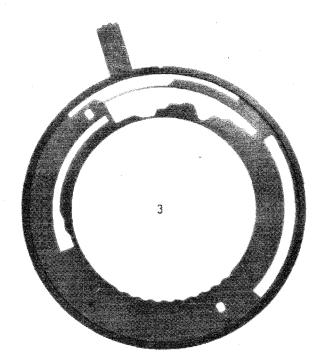
Gefertigt

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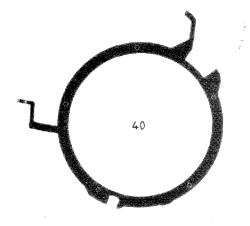
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Blatt Nr. 2



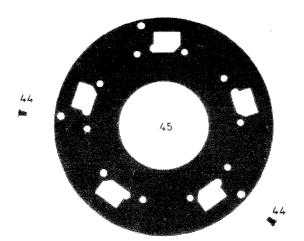








39



¥ 44a



I - 12 p1 /2

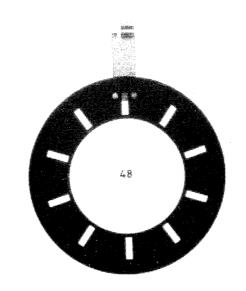
PRONTOR - PRESS I -12 p1

Gefertigt

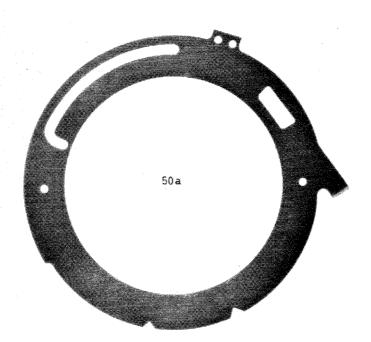
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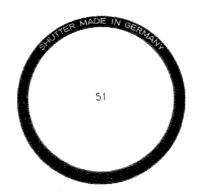
Geprüft

Blatt Nr. 3



49a





I - 12 p1 / 3

PRONTOR - PRESS I -12 p1

Gefertigt

26. 2.65

Geprüft

Blatt Nr.

I - 12 I - 12	on I I	143 137 137 - 12 - 12 123.1 134	- U1 - U1
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		61 61	
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JRI JRI	-	71 71	
St	IJRX5 I - 12 I - 12 Stelle t. of	I - 12 - I - 12 - Stelle von t. of	IJRX5 - 8.2 I - 12 - 7 I - 12 - 7 Stelle von I - 12 t. of I - 12 JRI - 71 JRI - 71

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Instructions for the Repair of the PRONTOR IJRX5p Shutter

Tal	ble of Contents	Sheet
1.	Introductory Remarks	1
2.	Mode of Operation	3
	a) when set for instantaneous speeds from $1/125$ sec to 1 sec	
	b) when set for "B" (time exposures)	
3.	Dismantling and Reassembling the Shutter	4
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Appendix:

Spare Parts List

Repair Instructions for GAUTHIER Shutters
Model PRONTOR IJRX5p

1. General Introductory Remarks

These repair instructions have been written in order to enable repairmen to furnish a quick, efficient and reliable repair service without any major difficulties.

They start with a description of the mode of operation of the shutter, and it is recommended to read this paragraph very carefully, for the knowledge of the functions of the individual components is the basis for understanding the concerted operation of all components in the Gauthier PRONTOR precision shutter.

a) Tools for Repair Work

Apart from the front plate wrench MV 100, and the lever bending tool A2 there are no other special tools required for dismantling and repairing the shutter.

However, in selecting the screwdrivers it is very important to use a screwdriver of the proper size for the various screws. If screwdrivers of a non-fitting size are used, the repairman will run the risk of damaging the screw slots. As a result it will be impossible to loosen the screws.

b) Lubricants

The manufacturer lubricates the shutter at all points requiring lubrication by means of lubricating pastes

that can be regarded as life-time lubricants. In repair work additional lubrication is required only in such cases where parts are washed or replaced by new ones. The attached lubricating diagram indicates the points of the shutter parts that require lubrication, and the type of lubricant to be used.

Note

Only those lubricants indicated in the lubricating diagram should be used for lubricating the shutter. By using a different type of lubricant the repairman will run the risk that the viscosity will not meet the specific requirements, which means that the shutter blades might be glued together by the lubricant, or the gears may become gluey resulting in each case in incorrect shutter speeds. Attention must also be given that there will not be an excessive amount of lubricant at the edges, recesses and drilled holes. If necessary the lubricant must be wiped off carefully.

c) Spare Parts

If in repairing a shutter it is necessary to replace individual components, only

FACTORY-MADE SPARE PARTS

should be used. The parts can be ordered by use of the attached spare parts list. However, it is necessary to state the exact designation and the part number shown in the list. This is the only possible way for us to supply the correct spare parts.

2. Mode of Operation

a) Instantaneous Speeds

Shutter speed and aperture are set to the desired values. A pressure on the cable release plunger advances the cable release socket pin 6, the cocking lever 7, and the cocking latch 9 which is connected with the latter. An integral cam 9a of the cocking latch 9 comes to rest against the angular stop plate 35, and when actuated moves the driving lever 13 radially towards the outside. In doing so the cam strikes the stop lug of the driving lever 13. The driving latch 14 riveted to the driving lever 13 is pressed by the closing spring 17 against the ring lever 16, and a recessed portion engages the driving lug; at the same time the brake latch 24, also riveted to the driving lever, slips past the driving lug of the brake lever 25. At the end of the cocking travel the cocking latch 9 disengages the driving lever 13, and pulled by the driving spring 21 the driving lever returns to its original position.

In returning, the brake latch 24 strikes the lug of the brake lever 25, and depending upon the setting has to overcome the braking action of the slow-speed gear train (see Speed Setting System page 7).

During the return travel of the driving lever 13, the driving latch 14 displaces the ring lever 16 and the driving ring 36 in positive engagement with the latter. The shutter blades open.

Just prior to reaching the resting position the brake lever 25 becomes disengaged, both brake latch 24 and driving lever 13 flip back, and the driving latch 14 returns the ring lever 16 and the driving ring 36 positively connected with the latter to their original positions.

b) Time Exposures

Independent of the selected shutter speed the shutter blades can be opened for any period of time, if the cable release is screwed into the cable release socket 1a.

A pressure on the cable release plunger causes the cable release socket pin 6a to strike the driving lug 37a of the shutter blade ring 37 and to displace the latter. The shutter blades open. If the cable release socket pin is allowed to return, the shutter blade ring 37 actuated by the shutter blade ring spring will follow immediately, and the shutter blades will close.

3. Dismantling and Reassembling

A. Dismantling the Shutter

After removing the four mounting screws of the shutter base the latter can be lifted off together with the diaphragm system. (For further details on the diaphragm system please see sheet 11).

The shutter mechanism is now accessible. The shutter blades can be lifted off directly, the shutter blade ring spring 10 can be unhooked, and the shutter blade ring 37 and the drive ring 36 can be removed. The remaining shutter dismantling operations are relatively easy, and will be described in some cases in the descriptions of the individual systems.

Note:

Should it become necessary to replace the front plate, the setting ring or the notched speed lever, the front plate ring must be removed. The stock number of the front plate ring wrench is MV 100.

B. Reassembling the Shutter

Important Note

As a general rule attention must be given to the fact that in reassembling the shutter no lever will be bent and no spring stretched, as otherwise the shutter will not function properly. Special attention must be given to the position of the cable release socket pin 6a, as this part will become loose when the shutter blade ring 37 is removed, and may slip out of the drilled hole of the cable release socket 10. Moreover, the driving spring 21 should not be hooked up on the second rivet of the adjusting lever 23 as shown in the illustration, but rather on the first rivet as viewed from the adjusting lever screw 22. Additional detailed assembly instructions will be given in the descriptions of the individual systems.

4. Cocking and Tripping System

The mode of operation of the cocking and tripping system has already been described in paragraph 2a. The following paragraphs contain instructions on the replacement of parts, on the assembly, and on the correction of defects.

a) Replacing

the cocking lever 7, the cocking latch 9, the angular stop plate 35, and the cocking lever spring 3.

By removing the two bearing bridge screws 5 and 11, the cocking lever 7 and the cocking latch 9, and after removing the screw 34, the angular stop plate 35 will become loose.

b) In assembling the shutter the angular stop plate 35 is first secured by means of the screw 34, then the cocking lever 7 and the cocking latch 9 are fitted with the cocking lever spring hooked up on the cocking lever 7. Place the two spacing bushings over the

threaded holes, pretension the cocking latch spring 12, and stick it over the spacing bushing. Hold down the cocking latch spring 12 and the spacing bushing by means of one finger, fit the bearing bridge 8, and secure it in position by means of the two screws 5 + 11. Then the cocking latch spring 12 is placed underneath the cocking latch 9 where it must rest against the spring rivet.

Defect

Cause

Correction

1.

Shutter does not cock, release has no resistance at all, or very little.

- a) Cocking lever spring 3 is unhooked.
- b) Cocking lever spring 3 is extended.
- c) Cocking-latch of spring 12 does not rest against the spring rivet of the cocking latch 9, but against the nozzle of the housing.

- a) Hook up the cocking lever spring 3.
- b) Install new cocking lever spring (for this purpose the cocking lever 7 must be removed).
- c) Pull the cocking latch spring 12 along the base of the housing and hold it by means of a pair of tweezers (at the ring lever 16). Make the cocking latch 9 rest against the nozzle, but make sure that the spring rivet will slip over the spring 12. Lift the spring lightly and let it strike against the rivet.

Defect

Cause

Correction

2.

Shutter cocks but does not—trip.

- a) Closing spring

 17 is unhooked
 from the driving
 latch 14.
- b) Ring lever 16 is not located in the recessed portion of the driving ring 36.
- c) The slide cam 9a is too steep, so that the driving latch cannot get caught in position.

- a) Hook the closing

 spring 17 on the

 spring rivet of the

 driving latch 14.
- b) Install the driving ring 36 properly (see shutter blade system).
- c) Bend slide cam slightly by means of a pair of tongs.

The shutter The driving latch set for slower spring 20 does not instantaneous rest against the speeds pro- spring rivet. duces faster speeds, i.e. (although set for 1 sec) the shutter blades

close instantly after opening.

make driving latch ot spring 20 rest against the spring rivet.

5. Slow-Speed Assembly and Speed Setting System

Rotating the setting ring controls both the engagement of the brake lever 25, and the engagement and disengagement of the escapement. The escapement is engaged when the shutter is set for any of the following speeds: 1, ½, ¼4 and ⅓8 sec; it is disengaged when the shutter is set for any of the following speeds: ⅓15, ⅓30, ⅙60 and ⅙125 sec.

The control cam of the setting ring serves to set the angular position of the brake lever 25 that governs the shutter speeds.

Time Exposures "B" - See Shutter Blade System.

The two fixing screws 30 + 33 in the lower bearing plate secure the slow speed assembly 31 in the shutter. The slow-speed assembly can only be removed from the shutter after the brake lever 25 has previously been removed.

For assembling the slow-speed assembly the setting ring has to be rotated all the way to the right to the 1 sec position, then the slow-speed assembly can be installed and secured by screws. Press the tie lever 29 on the post of the gear segment, place the washer on the threaded hole, slide the brake lever over it, and secure it by means of the retaining screw 26. After the brake lever spring 27 is hooked up, the slow-speed assembly is ready to operate.

Note:

In fitting the setting ring give special attention that the escapement rocker arm and the control rivet of the gear segment that project through the base of the housing will come to rest in the recessed portions of the setting ring.

Defect Correction Cause 1. Shutter produces Brake lever 25 is Hook up brake lever not engaged; spring 27. faster speeds than the slower speeds brake lever set. Please also spring is unhooked. see defect 3 and Cocking and Tripping System.

- Shutter speeds are slower than indicated in the
- a) Brake lever 25
 does not move
 easily, no
 washer has been
 fitted.
- a) Remove the brake lever 25, and reinstall it together with a washer.
- b) Dirt inside the slow-speed assembly.
- b) Replace the slowspeed assembly by a new one.

Note:

program.

2.

The shutter speeds can be adjusted in relation to each other by swadging or filing the control cam of the setting ring. The shutter speeds can only be accurately examined by means of a shutter speed measuring instrument.

6. Shutter Blade System

When the shutter completes its cycle the rivet 96 locks the shutter blade ring 37 against shifting, whereas the drive ring 36 is briefly advanced and returned by the ring lever 16. The rotation is limited by the recesses in the drive ring 36, and in the shutter blade ring 37, and by the stop screw 32.

a) Time Exposures "B"

when the shutter is tripped by use of the cable release socket 1a, the cable release socket pin 6a strikes the drive lug 37a of the shutter blade ring and displaces the latter. In doing so the shutter blades are opened, and when the pressure of the cable release crown is eased, the shutter blade ring spring 10 returns the shutter blade ring 37 to its starting position, — the shutter blades close. As the locking abutment 37b of the shutter blade ring is rotated in front of the rivet 9b, the shutter is prevented from giving an instantaneous speed at the same time. On the other hand when the shutter is used for instantaneous speeds, the rivet 9b prevents simultaneous time exposures, because when the shutter completes its cycle this rivet slides in front of the locking abutment 37b.

b) In fitting the drive ring 36 attention must be given to the fact that the ring lever 16 will slip into the recess provided for it, and that the contact arm 36a will not be pushed in between the flash contact spring 28 and the flash contact nipple (please also see flash contact system). After that, by use of a pair of tweezers the closing spring 17 is slipped through underneath the spring rivet of the drive ring 36 and is placed in position.

The shutter blade ring 37 must first be slipped under the head of the shutter blade ring screw 2, and can then be pushed on the nozzle of the housing. Use a pair of tweezers to hook the shutter blade ring spring 10 on the drive lug 37a. Then the shutter blades are fitted in such a way that the rivets of the driving ring 36, and of the shutter blade ring 37 will slip into the drilled holes of the shutter blades. Mount the shutter base with the diaphragm system in such a way that the shutter blade ring screw 2 will fit into the recesses in the base, and secure it by means of 4 screws.

Defect Correction Cause 1. a) In assembling a a) Reduce the Shutter blades do not form a lightnew drive ring recesses 36c and tight closure of 36, or a shutter 37c by swadging. the shutter opening. blade ring 37 it is noted that the recesses for the stop screw 32 are too large. b) Shutter blades b) Replace shutter are bent. blades. 2.

Note:

rusty.

Shutter blades

The shutter blades and diaphragm blades must be handled with particular care. Bent parts must be replaced by new ones. The shutter blades and diaphragm blades must be protected against fingerprints which are apt to lead to the formation of rust. As a general rule parts that are not in perfect condition must be replaced, and only in cases where no replacements are available the fingerprints should be removed with a clean cloth. Make sure to place the shutter blades and diaphragm blades on a flat surface for cleaning.

Diaphragm blades and shutter blades should <u>never</u> be lubricated.

Replace shutter

blades.

7. Diaphragm System

After lifting off the diaphragm covering disc secured by means of three screws, the diaphragm blades are freely accessible.

Assembly

Insert the pointer arm of the diaphragm pointer disc into the slot of the base, place it into the annular recess, and rotate it counter-clockwise right to the stop. Fit the diaphragm blades in such a way that the rivets will come to rest in the drilled holes provided in the diaphragm pointer disc. Fit the spring ring centrically, and place on the diaphragm covering disc, but make sure that the diaphragm blade rivets come to rest in the drilled holes; this can easily be attained by a very slight forward and backward rotation of the diaphragm pointer disc. The three mounting screws secure the diaphragm system in the shutter base.

Defect	Cause	Correction
The diaphragm pointer disc does not move easily.	a) The diaphragm pointer disc or the diaphragm covering disc are bent.	a) Install new flat discs.
	b) The diaphragm blades are damaged.	b) Replace the diaphragm blades.

8. Flash Contact System

The shutter has X synchronization, which means that the contact is made when during the opening cycle of the shutter the shutter blades still project into the shutter opening for about 1.5 to 2 mm.

When the shutter completes its cycle, the contact arm 36a of the drive ring presses the flash contact spring 28 against the flash contact nipple and thus creates a conducting connection.

Defect

1.

The flashgun does not fire despite the fact that it is in good working order.

Cause

a) There is no contact made due

to the fact that the contact arm 36a is bent.

not mounted properly; the contact arm 36a is located between the flash contact spring 28 and the

contact pin.

c) Flash contact

spring 28 is bent.

Correction

a) Adjust the contact arm 36a, or replace the drive ring 36.

b) The drive ring is b) Install the drive ring in such a way that the contact arm 36a when displaced pushes the flash contact spring 28 against the flash contact nipple.

> c) Adjust the flash contact spring 28.

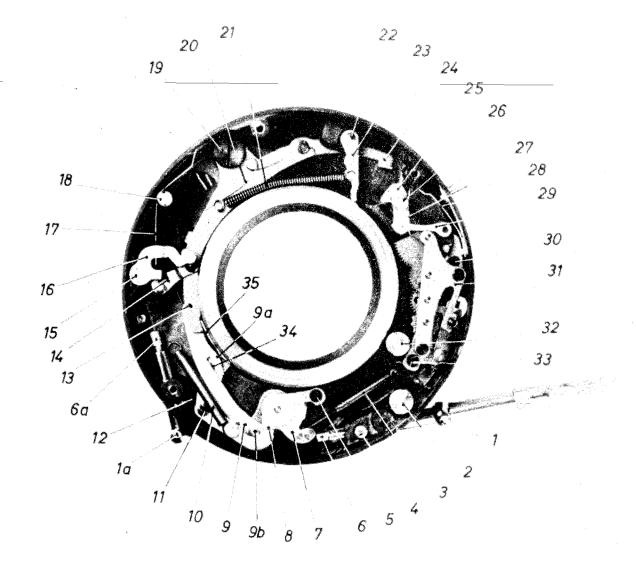
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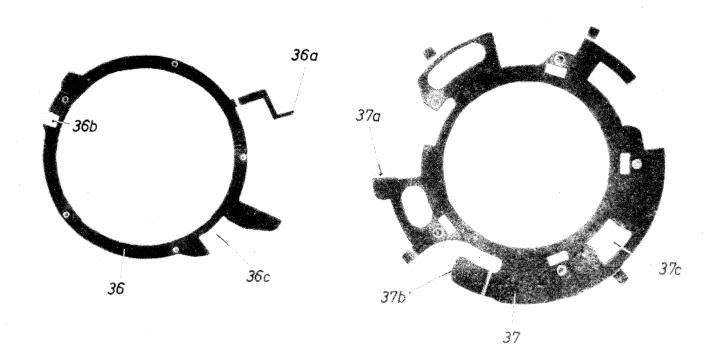
The contact is not made at the correct position of the shutter blades.

Contact arm 36a is bent.

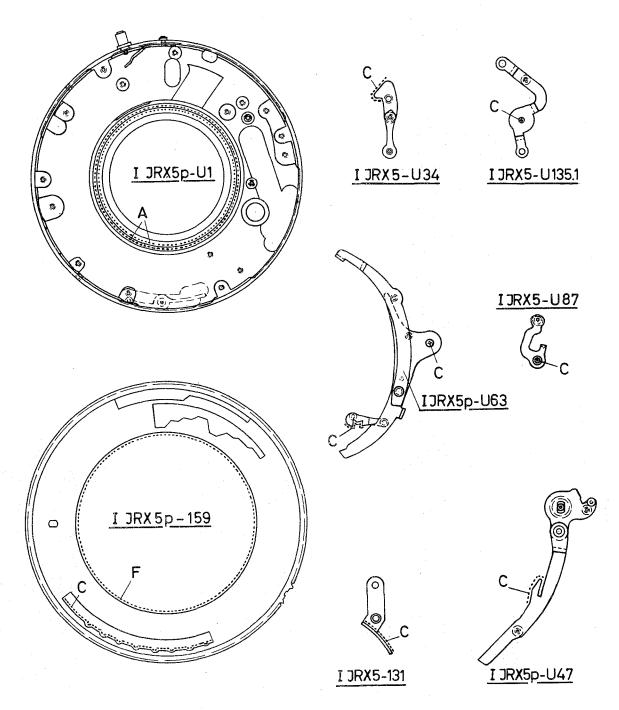
See 1a.

IJRX5p





Lubricating Diagram for the PRONTOR IJRX5p Shutter



A = Molykote paste micro fine

C = Molykote paste BR 2

F = Losoid 1164

The points to be lubricated are marked in red. The letters designate the type of lubricant to be used.

Liste best. aus Bl. 1 - 5 Bl. Nr. PRONTOR-PRESS IJRX5 p Alfred Gauthier G.m.b.H. Gefertigt 20. 3.62 fe. Gepr. Optik / Lens : Ysaron 1:4,5 / 75 Calmbach a. d. Enz Anz. der Änd.-Bl. Kamera Copy - Camera Teilbenennung: Teil Nr.: Teil: IJRX5 - U31.1 Antriebring drive ring IJRX5 - U34 Bremshebel brake lever IJRX5 - U2 | Jrislamelle diaphragm blade IJRX5 - U31.1 IJRX5p-U1 Kapsel housing IJRX5-U34 IJRX5-U135.1 Lagerbrücke bearing bridge IJRX5-U2 IJRX5-U45 Regulier hebel adjusting lever IJRX5 - U87 Ringhebel ring lever IJRX5p-U128 Sektorenring shutter blode ring IJRX5p-U47 Spannhebel IJRX5p - U1 cocking lever IJRX5-U135.1 IJRX5p-U63 Treibhebel drive lever *IJRX5-U45* wird nicht abgegeben cannot be supplied IJRX5p-U63 IJR X5-U87 IJRX5p-U128

IJRX5p - U47

Alfred Gauthier G.m.b.H.
Calmbach a. d. Enz

PRONTOR - PRESS IJRX5 p

Liste best. aus Bl. Bl. Nr.

Gefertigt 20.3.62 fe. Gepr.

Anz der Änd - Bl.

Bl. Nr. 2 Liste best. aus Bl.

Calmbach a. a. Enz		Anz. der ÄndBl.
Teil Nr.:	Teilbenennung:	Teil:
IJRX5- 131	Anschlag winkel	
	angular stop plate	
IJRX5p - 164	Anschraubring	
	flange	
IJRX5p - 3	<u>Boden</u>	
	bottom	ITRX5 - 131 IJRX5p - 164
IJRX5p-134	Einstellbogen	$\frac{IJRX5-131}{}$
	scale band	
IJRX5p-159	Einstellring	
	speed setting ring	
IJRX5p-591	Federring	
	spring ring	0
IJRX5p-239	Frontplattenring	- # # # # # # # # # # # # # # # # # # #
	front plate ring	= -
		© © IJRX5.p - 3
		125 60
		17PY5 p = 13/
		IJRX5p-134
	-	
		D IJRX5p 159
. ,		
		<u>IJRX5 p - 591</u>
	A 200 A	

Alfred Gauthier G.m.b.H. Calmbach a. d. Enz PRONTOR - PRESS IJRX5 p

Liste best. aus Bl.		Bl. Nr. 3	
Gefertigt 20.3.62	fe.	Gepr.	
Anz. der ÄndBl.	/		

Cumbuch	a. a. E/12		Anz. der ÄndBl.
Teil Nr.:	Teilbenenn	ung:	Teil:
IJRX5p - 168	Frontplatte		
	front plate		PRONTOR
IJRX5p - 5	Jriszeigersch	eibe	PROMOR
	diaphragm po	inter disc	
IJRX5p-8	Jrisdeckschei.	b <u>e</u>	
	diaphragm cove	ring disc	
IJRX5 - 61	Sektor 5 Stu	ick	[JRX5.p-168]
	shutter blade	5 pcs.	
0JRX5- 78	Unterlegscheibe		
	washer		
			POLAROID
IJRX5p-G10	Hemmwerk		JEANO!
	slow speed as.	embly	
			[IJRX5p-5]
-			
	,		
			$\left(\begin{array}{ccc} \circ & \left(\begin{array}{ccc} IJRX5p-8 \end{array}\right) \\ \circ & \left(\begin{array}{ccc} \bullet & \left(\begin{array}{ccc} \bullet & \bullet \end{array}\right) \\ \bullet & \left(\begin{array}{ccc} \bullet & \bullet \end{array}\right) \\ \bullet & \left(\begin{array}{ccc} \bullet & \bullet \\ \bullet & \bullet \end{array}\right) \\ \end{array}\right)$
			<u>IJRX5-61</u>
			©
			OJRX5-78
			231110 70
			Ge Gentle Control of the Control of
			\
			IJRX5p - G10
			wird nur als Ganzes abgegeben
.:			only complete assembly can be supplied
<u>G</u>			ong complete assembly can be supplied

Alfred Gauthier G.m.b.H. PRONTOR-PRESS IJRX5 p

Liste best. aus Bl.	Bl. Nr. 4
Gefertigt 20. 3. 62 fe	Gepr.
Anz der Änd Bl	

Odinibaon a. d. Linz			Anz. der ÄndBl.					
Teil Nr.:	Teilbenen	nung:		Te	il:		نظاره راسو	
IJRX5p - 136	<u>Anschlagwin</u>	kelschr.						
	angular stop	plate screw						
IJRX5p-72	Auslösrohr /	4						
	cable release	socket A	- p	A				
IJRX5p-72a	Auslösrohr B					<u> </u>		
	cable release	socket B	IJRX5p-136	<u> 131</u>	R <i>X5p-72</i>	IJRX5p-72a		
JR0 - 73	Auslösrohrsc	<u>hr</u> .						
	cablerelease soc	ket screw						
IJRX5p - 73a	Auslösrohrsc	hr.			4			
·	cable release s	ocket screw			I			
IJRX5p - 74	Auslösstift A		<u> JRO - 73</u>	<u>IJF</u>	2X5p-73a	<i>IJRX5</i> p - 74		
	cable release	socket pin						
IJRX5p-74a	Auslösstift B							
	cable release	socket pin				(M		
IJRX5p - 94	Antriebring-Ar	nschlagschr.						
	drive ring sto,	p screw	IJRX5p-74	4a IJF	RX5p-94	3114 - 20 - 3220		
3114 -20-3220	Bremshebels	chr.	Acres consistential (A Valle E 1997 to 1974 to					
	brake lever so	rew						
1217-32-2110	Bodenschr. 2	Stück	4		. [=]	1 ==1		
	bottom screw	2 pcs.	7			4-1		
0JRX5 - 136	Distanzbüchse	2 Stück	<u> 1217- 32-21</u>	<u>10</u> <u>OJF</u>	RX5-136	<u>1217-16-1433</u>		
	distance bush	ning 2 pcs.						
1217-16-143	Deckscheibens	schr. 3 Stck						
	cocer disc scr	•	A-s		(D=-3		
1217-12-1433	Einstellbogen	schr. 2Stck.						
	scale band sc	rew 2pcs.	1217-12-14	<u> 16</u>	14-12-7110	<u> 1014-20-2110</u>		
1614-12-7110	Fixierschraub	oe e						
	locating scre	W						
1014 -20-2110 1517 -20-1110	Hemmwerks	chr.	-10-	•		() -		
	slow speed asse	embly scr.						
03044-223	Lagerbrücken.	schr.lang_	<u> 1517-20-111</u>	<u>0 03</u>	04u-223	<u>1517-32-2116</u>		
	bearing bridge	scr. long						
1517-32-2116	<u>Lagerbrücker</u>	nschr. kurz						
	bearing bridg	ge scr. short	Ú		4	<u> </u>		
IJRX5 - 88	Ringhebelsch	<u>r.</u>			الــــا)	("		
	ring lever sc.		IJRX5 -88	12	17-22-2130	IJRX5p-130		
1217 -22-2130	Regulierhebe	Ischr.						
	adjusting leve							
IJRX5p-130	Sektorenring	schr.				==1		
	shutter blade					_		
0JR10 - 102	Treibhebelsch		070	to = 100	700	10.8		
	drive lever so		UJRI	10-102	<u>JRO</u>	-100		
JR0 -108	Zuziehfeder.	schr.						

closing spring screw

Alfred Gauthier G.m.b.H. PRONTOR-PRESS IJRX5 p

Liste best. aus Bl.	Bl. Nr.	5	
Gefertigt 20.3.62	k.	Gepr.	
Anz der And Bl			

Calmbach	a. d. Enz	0/1 / / LEOC 25/1	9 8	Anz. der ÄndBl.		
Teil Nr.:	Teilbenennung:		Teil:			
JRI - 64	Bremsklinkenfeder	·				
	brake latch spring					
IJRX5p -133	Sektorenringfeder					
	shutter bladering spring	9				
IJRX5 - 93	Spannklinkenfeder					
•	cocking latch spring					
IJRX5- 52	Spannhebelfeder	0	(ULLIDADA LIBERITA HARRISTA BARRISTA DE LA CARRISTA DEL CARRISTA DEL CARRISTA DE LA CARRISTA DEL CARRISTA DEL CARRISTA DE LA C	Q		
	cocking lever spring	<u> JRI - 64</u>	<u>IJRX5p-133</u>	IJRX5-93		
IJRX5 - 103	Treibfeder		*			
	drive spring					
JRI - 107	Zuziehfeder	-				
***	closing spring			0		
		17DV5_52	17DVE - 102	7DT_ 107		
		<u> </u>	<u>IJRX5-103</u>	<u>JRI-107</u>		
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2525 2566

2860 2929 26.8.63

Alfred Gauthier G. m. b. H. Calmbach a. d. Enz PRONTOR-PRESS IJRX5p Geänderte Changed pai

Blatt Nr. 1 Teile
Changed parts

Gefertigt:

Liste besteht aus Blatt 1-7... Gepr. ... 20.3.62 fe.

		<u> </u>		Changed			. 0. 3. 02
Lfd.Nr.	Teil Nr.:	Teilbenennur	g:		Te	il:	
1		ung Nr. 2525 ge Nr. 2525					
2	IJRX5p - 94.1	Antriebring-An an Stelle v. IJRX					
		drive ring stop s inst. of IJRX5p			IJRX5	p - 94.1	
3		Nr. 2566, 3301, 3410 Nr. 2566, 3301, 3410					·
4	IJRX5p - 73	Gewindestift an Stelle v. IJR.	3 Stück X5p-73a		−€ IJRX5	_	
		threaded pin inst.of IJRX5p -				'	
5	1517-20-1110	Bodenschr. 2	Stück		_] - 20-1110	
6		rung Nr. 2860 nge Nr. 2860			C		
7	0JR10 - 102.1	Treibhebelschr an Stelle v. 03R drive lever scr inst. of 03R10-	10-102 ew		0JR10 -	- 102.1	
8	Ände	rung Nr. 2929 ange Nr. 2929	102				
9	IJRX5p-169	Lichtdämpfrir auf besondere l	Bestellung		IJRX5p	-169	
		light baffle rir upon special req					
10							
S. Street Street, Stre	i de la companya del companya de la companya del companya de la co		Anderungszustand	dieses Blattes			
Ănd. Nr.	Lfd. Nr.	Tag u. Name Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
25 15	•	30 3 / 3					

Alfred Gauthier G. m. b. H. PRONTOR-PRESS IJRX5p Geänderte Changed par

Liste besteht aus Blatt Blatt Nr. 2 Gepr. Changed parts | Gefertigt: 27.8.63 fe.

.fd.Nr.	Teil Nr.:	Teilbenennung:	Changed parts	Teil:
				nito ameningan kanada and ana amin'ny fivondrona amin'ny faritr'i Sacraman (no Park Vago ani e no amin'ny faritr'i
1		ung Nr. 2950 ge Nr. 2950		
	IJRX5p-U31	Antriebring_ an Stelle v. IJRX5-U31.1		0
2		drive ring inst. of IJRX5-U31.1		(5p - U31
3	I JRX 5 p - U128.1	Sektorenring an Stelle v. IJRX5p-U128		
		shutter blade ring inst of IJRX5p-U128	72	
,	IJRX5p - 61	Sektor an Stelle v. IJRX5-61		<u></u>
4	٠	shutter blade inst. of IJRX5-61		<u> []</u>
5			<u>IJRX</u>	(5p-U128.1
J		<u>rung Nr. 3171</u> nge Nr. 3171		
6	IJRX5p-94.2	<u>Antriebring-Anschlagschr.</u> wahlweise zu IJRX5p-94.1		
		drive ring stop screw optionally to IJRX5p-94.1		
7				
,	<u>Ä</u> nder Char	rung Nr. 3233 nge Nr. 3233	lô	
8	1517 - 20 - 1110	<u>Deckscheibenschr</u> . 3 Stck an Stelle v. 1217-16-1433	<u>IJRX5</u>	<u>ρ - 61</u>
Ů		cover disc screw 3pcs inst of 1217-16-1433		
9			<i>IJRX5p-94.2</i>	<u>1517-20-1110</u>
		ung Nr. 3409a oge Nr. 3409a		
	JRI - 107.1	Zuziehfeder an Stelle v. JRI - 107		
10		closing spring inst. of JRI-107	<u>JRI</u>	<u>- 107.1</u>

Ĺ	Anderungszustana aleses blattes							
Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
2950	2, 3, 4	27.8.63						
3171	6	# # 9	i					
3233	8	11 11 1			,			
34090	10	# // 4						

Alfred Gauthier G. m. b. H. Calmbach a. d. Enz PRONTOR-PRESS IJRX5 Teile

Liste besteht aus Blatt Blatt Nr. 3 Gepr. 27.8.63 fe. Gefertiat:

			Changed parts Gefertigt: 27.8.63 /c.
Lfd.Nr.	Teil Nr.:	Teilbenennung:	Teil:
1	9	rung Nr. 3463	
2	IJRX5p - 3.1	nge Nr. 3463 <u>Boden</u> an Stelle v. IJRX5p-3 bottom	IJRX5p - 3.1
3		inst. of IJRX5p-3	13AX3P = 3.7
		<u>lerung Nr. 3464</u> ange Nr. 3464	
4	IJRX5p - 5.1	Jriszeigerscheibe an Stelle v. IJRX5p-5	
		diaphragm pointer disc inst. of IJRX5p-5	
5	<u>Ände</u> Cha	rung Nr. 3557 Inge Nr. 3557	<u>IJRX5p - 5.1</u>
6	IJRX5p- 159.1	Einstellring_ an Stelle v. IJRX5p-159 speed setting ring	
-		inst. of IJRX5p-159	
7		nge Nr. 3558 nge Nr. 3558	
8	IJRX5p -U1.1	Kapsel ohne Skizze wird nicht abgegeben an Stelle v. IJRx5p-U1 housing without sketch cannot be supplied inst. of IJRx5p-U1	IJRX5p 159.1
9			
10			
			ONE DES SERVICIONES CONTROL CO
		Ānderungsz us	stand dieses Blattes

	Andorangazasiana anada Dianes							
Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
3463	2	27.8.63				1		
3464	4	# # 0	1					
3464 3557 3558	6	" " •						
3558	R	HA N						

Alfred Gauthier G. m. b. H. Calmbach a. d. Enz PRONTOR-PRESS IJRX5p Geänderte Changed pai

Liste besteht aus Blatt Blatt Nr. 4 Gepr. Changed parts | Gefertigt: 27.8.63 fe.

	7 1/ 41		Changed parts GOT	
Lfd.Nr.	Teil Nr.:	Teilbenennung:	Teil:	
1		e Nr. 3625		
2	IJRX5 - 70	Treibklinkenfeder an Stelle v. JRI-107.1 driving latch spring inst. of JRI-107.1		
3	IJRX5 - 107	Antriebringfeder an Stelle v. JRI - 107.1 drive ring spring	<u> 13RX5 - 70</u>	IJRX5 - 107
4	<u>Andert</u> Chan	inst. of JRI - 107.1 ung Nr. 3635 ge Nr. 3635		
5	1 - 12p- 123	Auslösrohr "A" an Stelle v. IJRX5p-72 cable release socket "A" inst. of IJRX5p-72	<u>1 - 12p - </u>	123
6		ung Nr. 3696 ge Nr. 3696		
7	122 02	Antriebring-Anschlagschr an Stelle v. IJRX5p-94.1 drive ring stop screw inst. of IJRX5p-94.1	122 02	<u> </u>
8	122 03	Antriebring-Anschlogschr. an Stelle v. IJRX5p-94.2 drive ring stop screw	-	wahlweise optionally
9		inst. of IJRX5p - 94.2 Sung Nr. 3714 age Nr. 3714	122 03	
	0376y - 362	Zeit - Rostenfeder		

Lfd. Nr. Tag u. Name Änd. Nr. Lfd. Nr. Tag u. Name Lfd. Nr. Tag u. Name Änd. Nr. 3625 27.8.63 3635 3696 3714 10

Calmbach a. d. Enz

3988

3073 3559

2,3,4,5

Alfred Gauthier G. m. b. H. PRONTOR-PRESS IJRX5p Geänderte

Liste besteht aus Blatt Blatt Nr. 5 Gepr.

Changed parts

27.8.63 fe Gefertigt:

.fd.Nr.	Teil Nr.:	Teilbe	nennung:	Cnange	Teil		
1		<u>ung Nr. 398</u> ge Nr. 398			uun.	3	
	I - 13 - 464	Distanzbu	ichse 2 Stck. OJRX5-136		<u>I-13-4</u>	<u>64</u>	
2		distance b	ushing 2 pcs. RX5-136				
•	IJRX5 - U135.2	<u>Lagerbrü</u> an Stelle v	cke IJRX5-U135.1				
3		bearing b	pridge RX5-U135.1		0	7	
4	109 05	Lagerbrüc an Stelle v. C	<u>skenschr</u> . lang 1304u- 223		IJRX5	-U135.2	
T		bearing bi	ridge scr. long 14u-223				
5	103 07	Lagerbrück an Stelle v. 1:	<u>enschr. kurz</u> 517-32-2116	109 05		-} <u>-</u>	3 <i>07</i>
		bearing bri inst. of 151	dge scr. short 7-32-2116				
6		ung <u>Nr. 30</u> ge Nr. 30			٠	7.	
7	IJRX5p - 8	Jrisdecksch an St.v. IJRX	neibe 5p-8 auf Bl.Nr.3				7
	inst of IJRX5p-8	· ·	covering disc.	\			
8	7				> 。	• 🗸 🤊	
	<u>Anderui</u> Chang	ng <u>Nr. 355:</u> e Nr. 355:	9		11045	•	
9	I-12 - U124	Auslössti an Stelle	f <u>t</u> v. IJRX5p-74		IJRX5 -	- 0	
,		cable relea inst. of IJA	se socket pin RX5p - 74				
10					<u>I - 12 - U</u>	124	
			Ånderungszustand	l dieses Blatter			
nd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr. Lfd. Nr.	Tàg u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
988		27 8 62	m; We III i		I		9 4. 174111

27.8.63

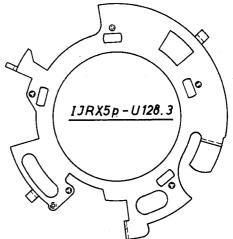
16. 3. 65

Alfred Gauthier G. m. b. H. PRONTOR-PRESS IJRX5p

Geänderte Teile Changed parts

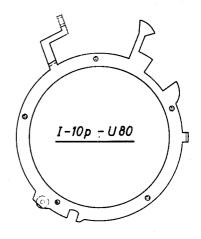
Liste besteht aus Blatt Blatt Nr. 6 Gepr. Gefertigt: 18.3.65 fe.

	Calmbach a. a. En		
Lfd.Nr.	Teil Nr.:	Teilbenennung:	
1		ng Nr. 4650 2 Nr. 4650	
2	IJRX5p-U128.3	Sektorenring an Stelle v. IJRX5p-U128.1	H
		shutter blade ring inst. of IJRX5p -U128.1	7
3		ng <u>Nr. 4667</u> e Nr. 4667	
4	7 002 026	Auslösrohrschr. an Stelle v. JR0 - 73	
		inst. of JRO - 73	
5	Änderu	ng Nr. 4695 ge Nr. 4695	
		Antriebring	
6	I- 10p - U80	an Stelle v. IJRX5p-U31	
		drive ring inst. of IJRX5p - U31	
7	IJRX5p-U1.2	Kapsel ohne Skizze Wird nicht abgegeben an Stelle v. IJRX5p-U1.1	
		housing without sketch cannot be supplied inst. of IJRX5p - U1.1	
8	I-10 - U361	Lagerbrücke an Stelle v. IJRX5-U135.2	
		bearing bridge inst. of IJRX5-U135.2	()
9	I-10 - U85	Auslöser an Stelle v.IJRX5p-U47	. 6
		release inst. of IJRX5p-U47	<u>I-10 - (</u>
10	7 002 228	Lägerbrückenschr. an Stelle v. 10905	
ı		bearing bridge screw inst. of 109 0 5	Fortsetzung continuation (

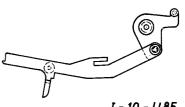


Teil:









I - 10 - U85



zu Änd. Nr. 4695 auf Blatt Nr. 7 of change No. 4695 on sheet No.7

	Anderungszustand dieses Biattes							
Ānd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
4650 4667 4695	2	18.3.65						
4667	4	<i>y</i> 1 1						
4695	6 - 10	, , ,						

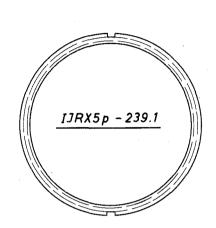
Alfred Gauthier G. m. b. H.

Calmbach a. d. Enz

PRONTOR-PRESS IJRX5p Teile
Changed parts

Liste besteht aus Blatt Blatt Nr. 7 Gepr.... Gefertigt: 18.3.65 fe.

Lfd.Nr.	Teil Nr.:	Teilbenennung:					
1	I-10 - 130	Auslöserfeder an Stelle v.IJRX5 -52					
T		release spring inst. of IJRX5-52					
2							
۷	Änderi Chan	<u>ıng Nr. 4919</u> ge Nr. 4919					
3	IJRX5p - 239.1	Frontplattenring an Stelle v. IJRX5p-239					
5		front plate ring inst. of IJRX5p-239					
	, .						
4	Änder Chan	ung Nr. 4982 ge Nr. 4982					
5	IJRX5 - U34.1	Bremshebel an Stelle v.IJRX5-U34					
		brake lever inst. of IJRX5-U34					
•							
6	<u>Änderung Nr. 5080, 5198</u> Change Nr. 5080, 5198						
	I-12 - G20	Hemmwerk an Stelle v. IJRX5p-G10					
7		slow speed assembly inst. of IJRX5p-G10					
e	7 000 884	Hemmwerkschr. an Stelle v. 1014-20-2110					
8		slow speed assembly scr. inst. of 1014-20-2110					
9							
3	<u>Änderu</u> Chang	ng Nr. 5244 ge Nr. 5244					
10	I - 12 - U5	Jrislamelle an Stelle v. IJRX5-U2					
10		diaphragm blade inst. of IJRX5-U2					
		Ānderungszu					

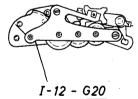


Teil:

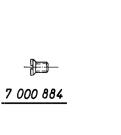
I-10-130

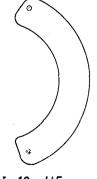


IJRX5-U34.1



wird nur als Ganzes abgegeben only complete assembly can be supplied





I-12-U5

	Änderungszustand dieses Blattes							
Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
4695	1	18.3.65	5244	10	18.3.65			
4919	3	- 11 K +						
4982	5	н « •						
4695 4919 4982 5080	7,8	11 11 *						

Calmbach a. d. Enz

Alfred Gauthier G.m.b.H. PRONTOR-PRESS IJRX5 p3

zu Modell IJRX5p to model IJRX5p

Liste best. aus Bl.	1	Bl. Nr.	1	
Gefertigt 2.9.63	fe.	Gepr.		
4 4 4 81	743			

Callibaci	r u. u. Lnz	Zu Model	Anz. der ÄndBl. 1,2					
Teil Nr.:	Teilbenen	nung:			Teil:	****		
IJRX5p3 - 3	<u>Boden</u> an Stelle v. IJ	RX5p - 3						
	bottom inst. of IJRX	5p-3			0			
IJRX5p3-9	Deckscheibe							
	cover disc		TOTAL CONTRACT OF THE PROPERTY		IJRX5 p3 - 3	5)		
IJRX5p3-134	Einstellbogen an Stelle v. IJ	- RX5p-134	The control of the co					
	scale band inst. of IJRX	5p - 134						
					17045-2 0			
			To the state of th		IJRX5p3 - 9			
	`						•	
						,		
				10	OPEN	0		
					30 15 8 4 2 1 <i>IJRX5p3 - 134</i>			
				•				
,						,		
·								

Alfred Gauthier G. m. b. H. Calmbach a. d. Enz

PRONTOR-PRESS IJRX5 p3

Geänderte Teile zu Modell IJRX5p to model IJRX5p Changed parts

Liste besteht aus Blatt 1.2.... Blatt Nr. 1 Gepr. Gefertigt: 2.9.63 k

	N. Water San and Jan. House, M. M. Marine, M. M. Marine, M. M. Marine, M. M. Marine, M.	zu Modell IJRX5p	to model IJRX5p Changed parts Gefertigt: 2,9.63 /2
Lfd.Nr.	Teil Nr.:	Teilbenennung:	Teil:
1		ung Nr. 2950 ge Nr. 2950	
2	IJRX5 - U31.1 siehe Mod.IJRX5p Bl.1	Antriebring an Stelle v. IJRX5p-Us	31
	see model IJRX5p on sheet 1	drive ring inst. of IJRX5p -U31	
3	IJRX5 - 61 siehe Mod.IJRX5p Bl.3		
	see model IJRX5p on sheet 3	shutter blade inst. of IJRX5p - 61	
4		·	
*		ng Nr. 2963 e Nr. 2963	<u>IJRX5p3-127</u> <u>1817-30-6400</u>
5	[]RX5p3 - 127	<u>Anschlagplatte</u>	
		stop plate	
6	1817-30-6400	<u>Sektorenringschr.</u> an Stelle v. IJRX 5p - 13	/ N° / M /
		shulter blade ring scr inst. of IJRX5p-130	en °
7			
•		<u>ung Nr. 3074</u> ge Nr. 3074	
	I JRX 5 p3 8	<u>Jrisdeckscheibe</u> an Stelle v. IJRX5p-8	
8		diaphragm covering d inst. of IJRX5p -8	isc
9			$ \left(\begin{array}{c} \left(\begin{array}{c} IJRX5p2-8 \end{array}\right) \right) $
3	Änder Chai	r <u>ung Nr. 3340</u> nge Nr. 3340	
	IJRX5p2 - 8	<u>Jrisdeckscheibe</u> an Stelle v. IJRX5p3-8	
10		diaphragm covering di inst. of IJRX5p3 - 8	isc

	Anderungszustana aleses blattes							
Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name	Änd. Nr.	Lfd. Nr.	Tag u. Name
2950 2963 3074 3340	2, 3	2. 9. 63						
2963	5, 6	A # #						
3074	8	jj 🐞 🐧						_
3340	10	h h h						

Alfred Gauthier G. m. b. H. Calmbach a. d. Enz

Änd. Nr.

3341

3463

Lfd. Nr.

2, 3, 4

Tag u. Name

2.9.63

Änd. Nr.

Lfd. Nr.

PRONTOR - PRESS
Geänderte
IJRX5 p3
Teile
zu Modell IJRX5p to model IJRX5pChanged parts

Liste besteht aus Blatt
Blatt Nr. 2 | Gepr.
Gefertigt: 2.9.63 | fe. Blatt Nr. 2 Gepr.

Lfd.Nr.	Teil Nr.:	Teilbenennung:	Teil:
1	Änder	una Na 221.1	
	Chan	<u>ung Nr. 3341</u> ge Nr. 3341	
2	IJRX5p -U31 siehe Mod.IJRX5p AndBl.2	Antriebring an Stelle v. I JRX5 - U31.1	
	see model IJRX5 p change sheet 2	drive ring inst of IJRX5 - U31.1	
3	IJRX5p - 61 siehe Mod.IJRX5p Änd.BI.2	<u>Sektor</u> an Stelle v. IJRX5-61	
	see model IJRX5p change sheet 2	shutter blade inst. of IJRX5-61	
4	IJRX5p- 130 siehe Mod.IJRX5p Bl. 4	Sektorenringschr. an Stelle v. 1817-30-6400	
7	see model IJRX5 p Bl. 4	shutter blade ring screw inst. of 1817-30-6400	
5	Änderu	ung Nr. 3463 ge Nr. 3463	IJRX5 p3 - 3.1
	IJRX5p3-3.1	Boden an Stelle v. IJRX5 p3-3	INNS DE S.I.
6		bottom inst. of IJRX5p3 - 3	
7			
:			
8			
9			
10		·	
			stand dione Blattne
7 / 41	144 No. 1	Anderungszu	stand dieses Blattes

Tag u. Name

Änd. Nr.

Lfd. Nr.

Tag u. Name