Rikon

MOTOR DRIVE MD-1

20FA97

REPAIR MANUAL (REVISED)



NIPPON KOGAKU K.K.

Tokyo, Japan

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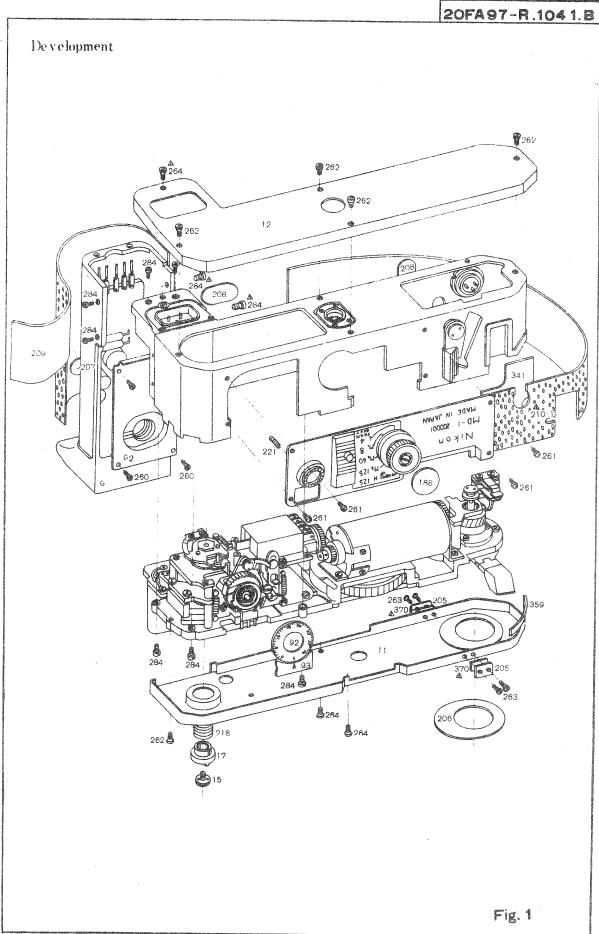
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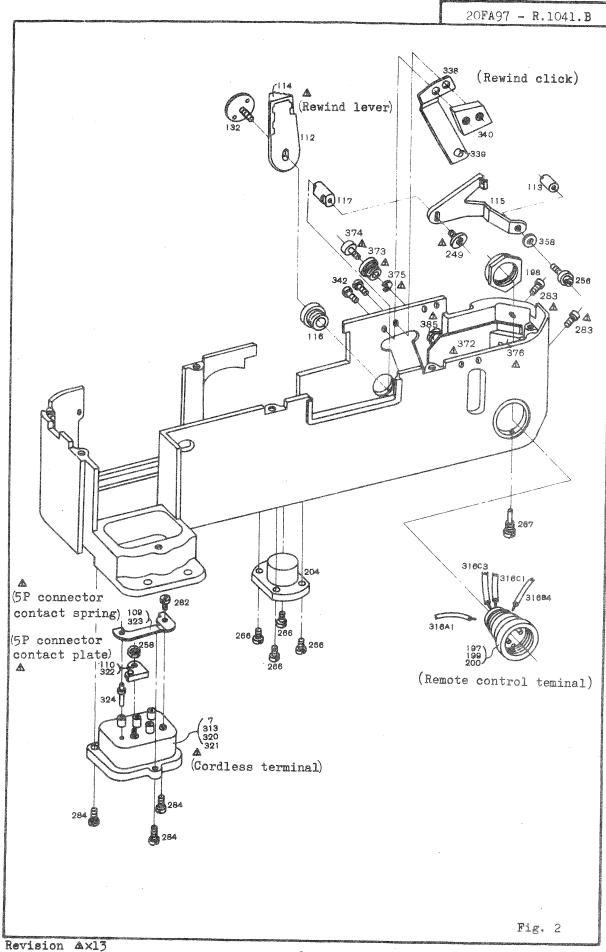
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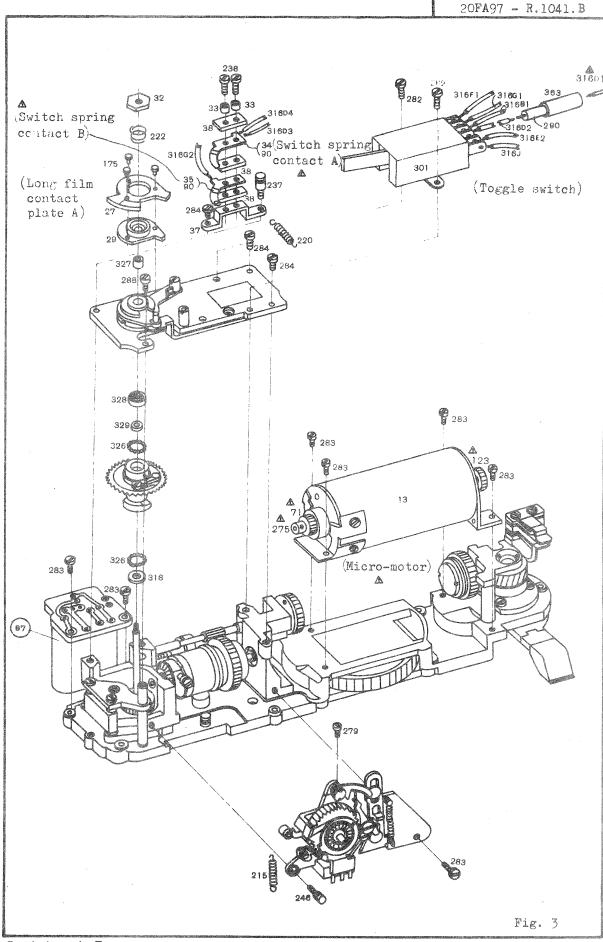
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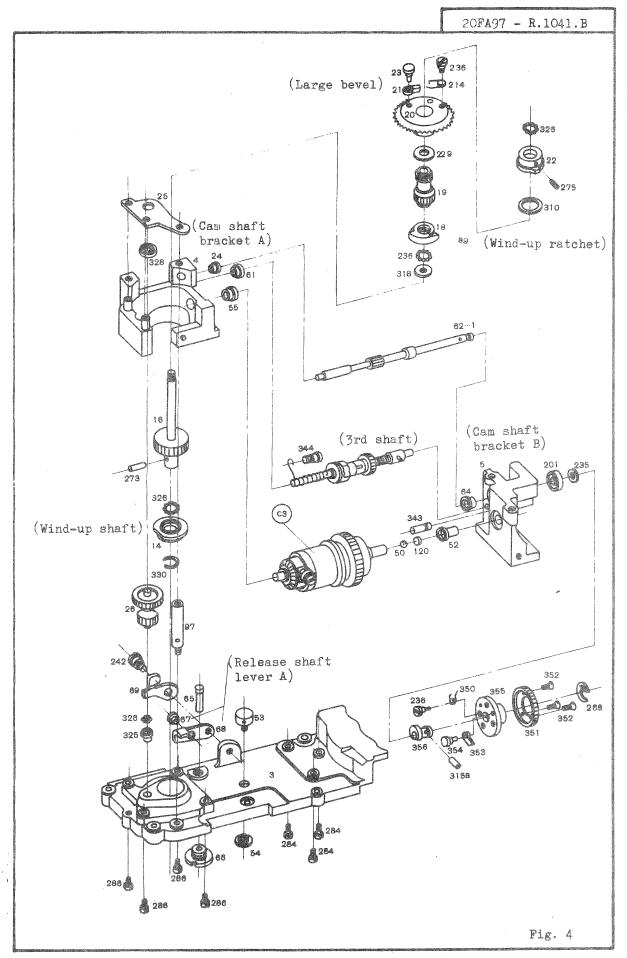
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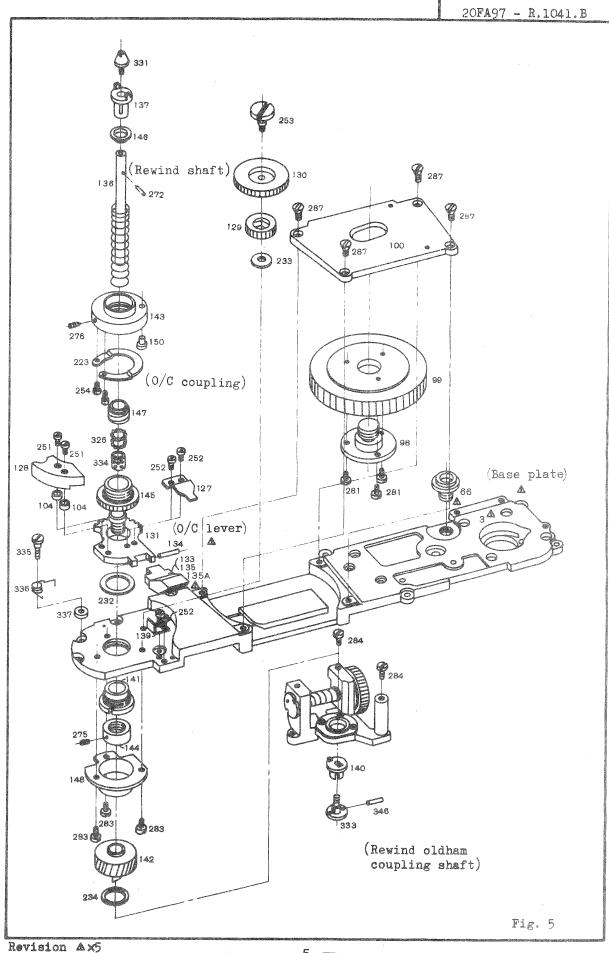
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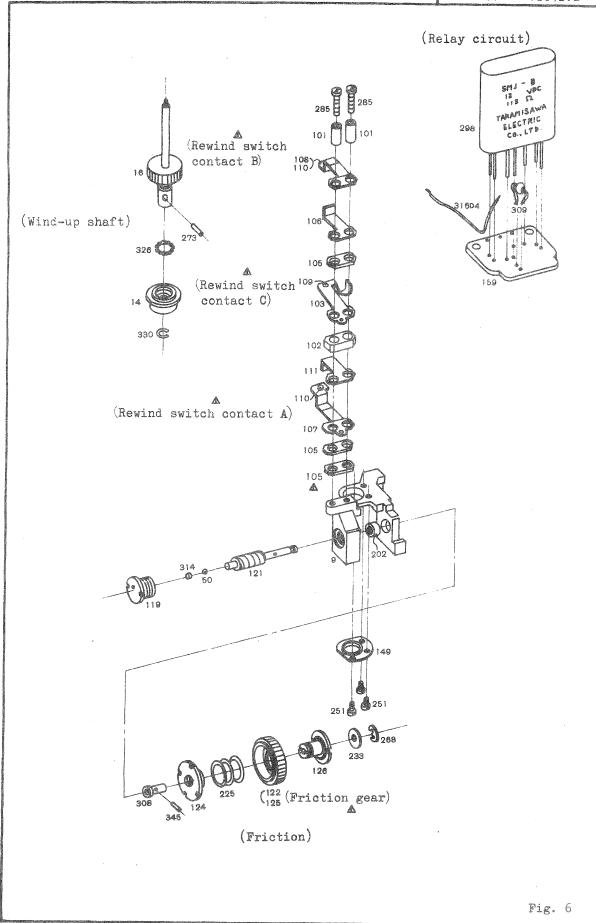


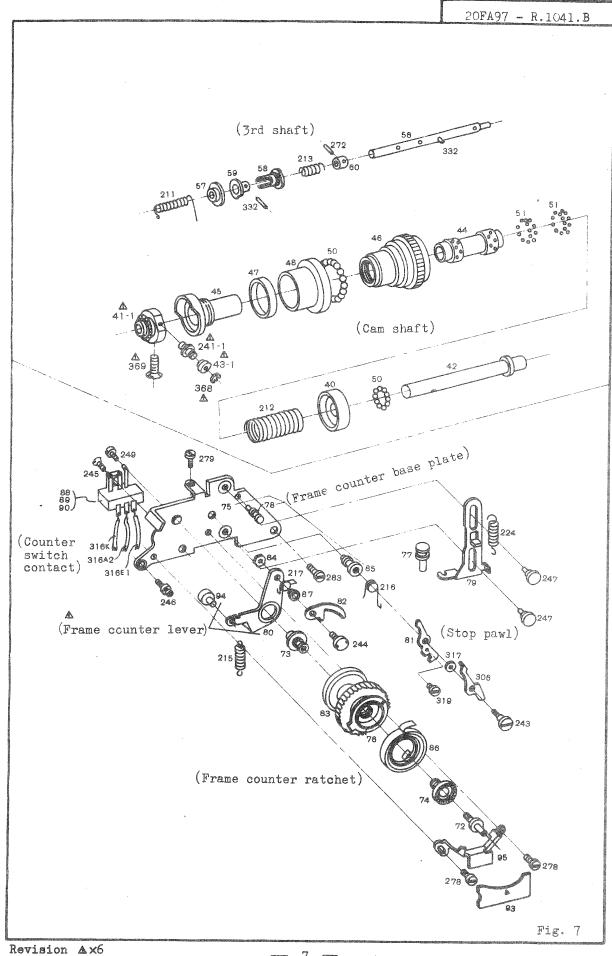


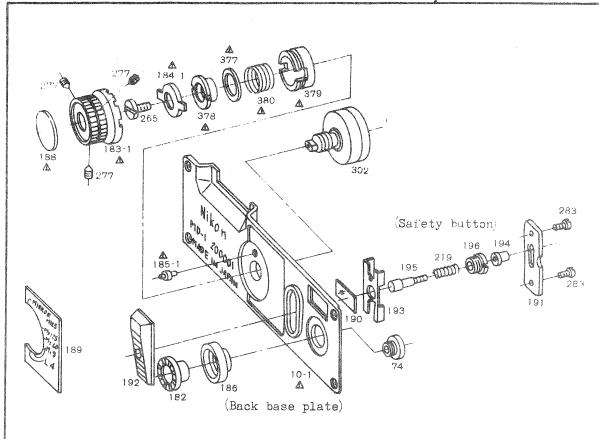












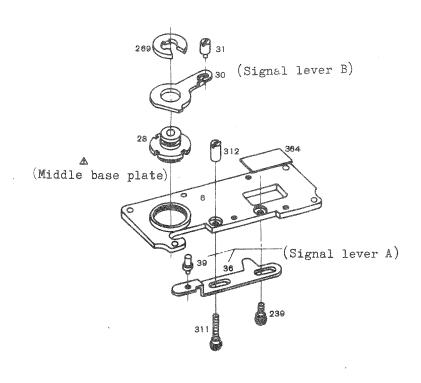
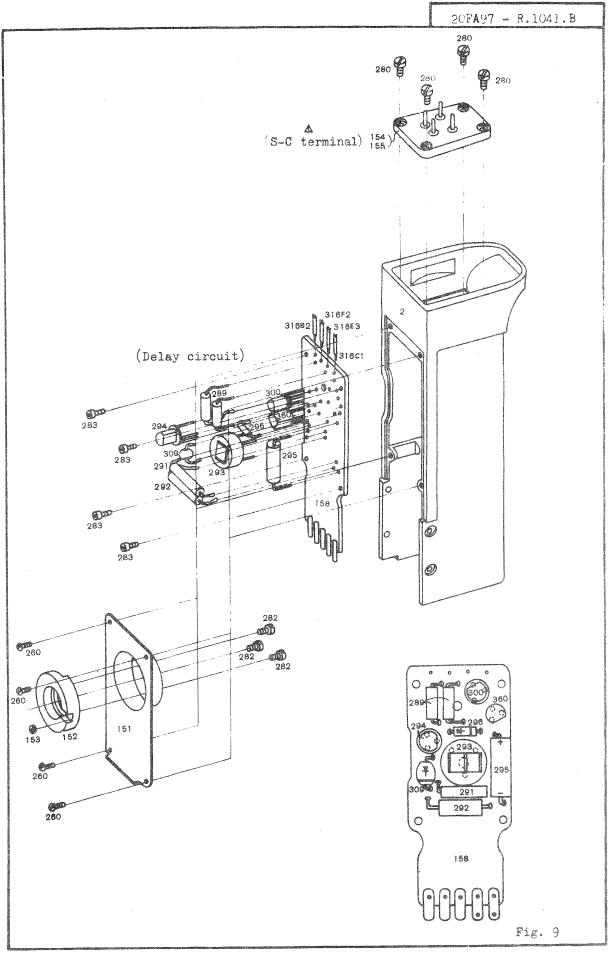
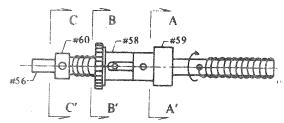


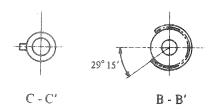
Fig. 8



2. Relative angles to be given in assembling the parts to the third shaft are as follows:

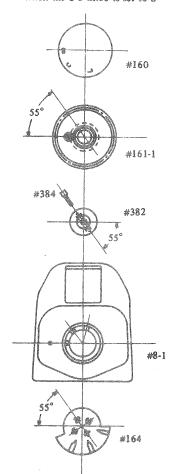


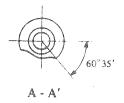
To assemble the third shaft, turn it two rotations in the direction indicated by the arrow.



Relative angles to be given in assembling the parts to the S-C knob $\,$

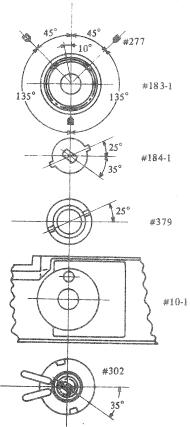
When the S-C knob is set to S





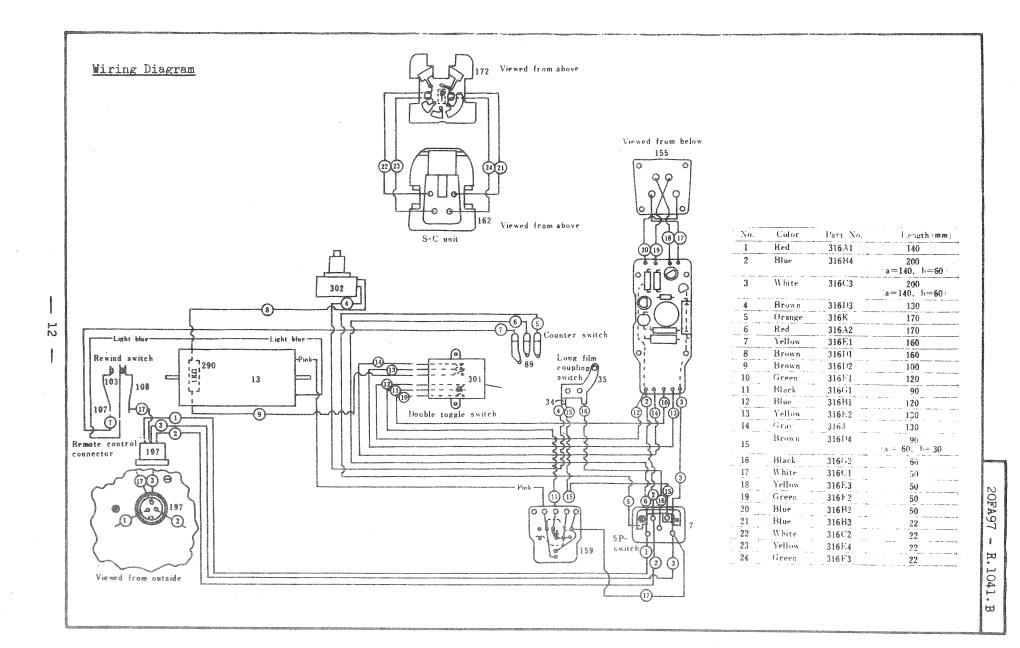
Angular relations and assembling of the firing speed adjusting knob

When the firing speed is set to H



Attach two terminals of variable resistor to #10-1 in such a position that they are attached symmetric above and below, as shown at right.

Assemble the shaft in such a condition that it is turned counterclockwise to the limit as shown at left, so that the firing speed is slower as the shaft is turned counterclockwise.



4. Lubricating and Cementing Table

	Type No. of the agent	Parts to be applied to
	L2113	#86, #136, #137
7.	G7100	Tripod screw knob, #65, #334, #77, #17, Rewind lever #339(click), #127, #150, #73 - 74, #195 - 196 #73 - 80
Lubricant	G8181	Wind-up idle gear, Cam shaft, 3rd shaft, #242 Wind-up shaft, Large bevel gear, Long film switch #131, Outer side of #145, O/C idle gear, #142 #140 - 333, 2nd shaft, #30 - 28, #36, Worm shaft Friction parts, Stop pawl, #79, Advance pawl, #161 S-C click, Frame counter dial, #191
	#501	#92, #93, #207, #208×2, #341, #188, #209, #210, #153 #160, #206, #189
agents	# 616	#116 - 1, #145 - 143, #65 - 5, #24 - 4, #55 - 4, #61 - 4 #352 - 351 - 355, #249 - 75, #83 - 76, #180 - 8 #349 - 167, #196 - 192, #182 - 74, #343 - 5 #359{Cemented with #616 agent, after fixed temporarily with #921 (Aron-Alpha)}
1	#646HB	#190 - 10
Cementing	#647HB	#95 - 75, #67 - 68
	#201 (#350)	#53 - 54, #284 - 5, #286 - 4, #283 - Motor, #284 - 4 #288 - 6, #284 - 6, #286 - 6, #237 - 6, #283 - 148, #284 - 9, #283 - 75, #279 - 75, #282 - 301, #284 - 3 #284 - 2, #342 - 1, #119 - 9, #278 - 95, #187 - 302 #283 - 10
	#410B/M	#287, #97, #275 - 144, #266 - 204, #276 - 143, #281 - 99 #362 - 357, #311 - 312, #251 - 149, #245 - 75

5. Operation Standards

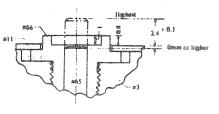
5-1. Stroke of shutter release shaft #65

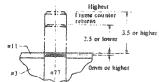
Adjust the highest position of the shutter release shaft so as to reach a distance of 2.4±0.1mm from the surface of #11, following the method described in 6-1. Although the stroke of the shaft is given on the drawing as 2.8mm, if the highest position comes to 2.5mm or higher, it sometimes happens that no shutter curtain slit opening is obtained at a shutter speed of 1/2,000 sec. The lowest position is to be lower than the surface of

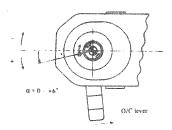
5-2. Stroke of rewind button pin #77
The highest position of the rewind button pin is to be 3.5mm or higher from the surface of #11. The position where the frame counter returns to S (start) is to be 2.5mm or lower.

The lowest position should be lower than the surface of

5-3. Angular position of O/C pin # 50 Push the O/C lever up to the limit in the C (close) position so that it has no slack in the direction of the arrow. In this position the O/C pin should be at an angle of 0° - 6° .







Winding-up torque

The winding-up torque of the winding-up coupling (#17) is to be 6 - 7.5 kg.m.

The torque of the rewinding coupling (#137) should be 2 - 2.5 kg.m.

Using a constant voltage power source (with a current capacity of 2A or more) and setting the S-C knob to the posi-tion S, the Motor Drive is to run normally at 15V. When the push button is released it should stop running, with the camera not loaded with film.

Lowest operating voltage
Using a constant voltage power source (with a current capacity of 2A or more), the Motor Drive is to run at 9V.

No load current

When the Motor Drive alone (with no camera attached) is wound up, the current capacity is to be as below: 0.25mA or less, while the roller (#43) is mount on the cam (#45)

0.22mA or less, while the roller is dismount from the cam.

When using a constant voltage power source (with a current capacity of 2A or more) at 15V and loading the camera with a patrone of TRI-X or NEOPAN-SS film, the time required for running 36 picture frames is to be within the following ranges for each firing speed setting:

Н	М,	M ₂	M,	L
6.5 - 8.0 sec.	7.7 - 9.2 sec.	9.0 - 10.5 sec.	13.5 - 17.0 sec.	26 - 31 sec.

5-10. Rewind current

Should not exceed 0.4A.

Time to be taken for rewinding 36 picture frames should not exceed 8.5 sec.

Even setting the mirror to up-position and then to down-position, the correct widths of the shutter curtain slit should be obtained at the firing speeds: L, M_1 , M_2 , M_3 , and H (only here for up-position).

5-13. Time for conducting the current of the long film coupling switch Should not exceed 120mec.

6. Adjustment

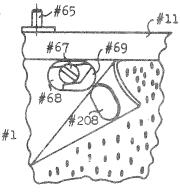
6-1. Adjusting the highest position of shutter release shaft

Peel off a small part of the leatherette from the front surface of the Motor Drive body to expose the oval adjusting opening. Let the cam in the Motor Drive advance (for which set the S-C ring to S and depressing the push button, switch off the power source.)

Keeping #65 protruded, rotate the

Keeping #65 protruded, rotate the adjusting pin #67 to adjust the height of #65.

After adjustment, fix #67 and #68 in position, using cementing agent #647HB.



6-2. Adjusting the picture frame speed per sec.

Adjustment of the following resistors is necessary:

- 1. Variable resistor #302
- 2. Semi-fixed resistor #293

The adjustment proceeds in the sequence as below:

1. Release three set screws #277 on the picture frame speed ring (#183).

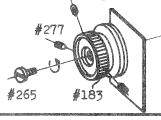
Unscrew screw #265.

Turn the rotating shaft of the variable resistor counterclock-wise to the limit. Bringing the index line on the speed ring to H position, refasten the set screws (#277) and screw (#265) tightly.

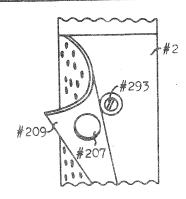
- 2. Turn the semi-fixed resistor counterclockwise to the limit.
 Using a constant voltage power source, slowly rotate the shaft
 of the semi-fixed resistor clockwise, until the following speeds
 are obtained at 12V with the camera loaded:
 - l picture frame per sec. at L 2 picture frames per sec. at M_{γ}
- 3. Then, using a power source voltage of 15V, rotate the semifixed resistor shaft so that the following speeds are obtained:
 - 5 picture frames per sec. at H 4.3 picture frames per sec. at M $_{3}$

(The counterclockwise turn will accelerate the speed.)

4. Error of the picture frame speed per sec. is allowed within ± 10%.

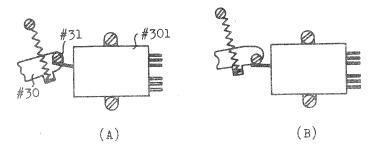


Counterclockwise turn of the variable resistor will accelerate the picture frame speed.



Peel off the leatherette from the front side of the grip.
The simi-fixed resistor can be adjusted through the opening in #2.
Counterclockwise turn will accelerate the speed.

6-3. Adjusting the highest operating voltage



To reduce the highest operating voltage bring the eccenter pin (#31), which operates the lever of the snap switch (#301), to such a position as shown in A.

To increase the voltage set the eccenter pin as shown in B.

			Page
۹.		Possibilities of Disorders	
	1.	Even though the push button is depressed, the Motor Drive does not run, regardless of S or C setting of the S-C knob	
	2.	The S-C knob being set to S, the Motor Drive operates normally, but the winding-up does not work at the C position of S-C knob	
	3.	The S-C knob being set to S, the Motor Drive operates normally, but at the C position, the firing speed cannot be changed	
	4.	The S-C knob being set to S, when the push button is depressed, the Motor Drive stops one ration, but, when the push button is released, with the S-C knob set to C, it runs normally	
	5.	The S-C knob being set to S, when the push bottons depressed, the Motor Drive runs continuously, but, at the C position, the firing speed cannot be changed	
	6.	When connected to power source, the Motor Drive continues its operation until the counter indicates zero (0), regardless of S or C setting of the S-C knob and of depressing or releasing of the push botton	
	7.	The S-C knob being set to S, when the push buttons depressed, the shutter releases more than once	
	8.	Although the push button is depressed, the Motor Drive operates, but it does not stop, when the button is released, regardless of S or C setting of the S-C knob. This disorder takes place, even when the highest voltage limit does not exceed 15V	
	9.	The Motor Drive runs, but the wind-up coupling (# 17) does not rotate 9-1. Operating sound of the cam (# 45) is heard, which is produced by moving back and forth of the cam 9-2. Only the sound of the motor running (no sound of the cam) is heard. 9-3. Running sound of the motor as well as an exordinary sound is heard.	. 23 . 23
-	10.	When the Motor Drive is operated, with the S-C knob set to C, no uniform firing speed is obtained	
house	eserci.	Although the push button is depressed, no wind-up operation is obtained, and the power source current makes shortcircuit. The wind-up coupling cannot be manually rotated clockwise (opposite to the winding-up direction), the power source being switched off	
1	12.	Although the rewind lever is turned down, no rewinding operation is carried out	24
quant de la constant	13.	Although the rewind lever is returned to its original position, the rewind coupling (#137) does not come down	
femod	14.	While being rewound, the rewind lever returns of itself	. 25
- Long	15.	The picture frame counter does not advance	25
1	16.	Although the wind-up knob is lifted, the counter does not return to S	. 25

S. Check Point, Cause, and Treatment					
	Part to be checked	Check point	Cause and treatment		
١.	Even though the push button	the S-C knob.			
	Power source	i) When using cordless battery pack MB-1, the battery checker points the red region. When using AC-DC convertor MA-2 or other power sources, the voltage does not reach 9V (with the current capacity 0.4A).	a) Too low voltage of the battery. b) Disorder of the power source. Repair or replace the power source.		
		ii) Split in the connector of cordless battery pack MB-1 opens.	Poor contact between cordless hattery MB-1 and connector of Motor Drive MD-1. Close the split, using a screw driver.		
2)	Remote control terminal (in case where power is supplied through remote control ter- minal)	Some plastic mold is attached around the red and/or white cord pin, causing insulation. White cord pin (-)	Poor contact of remote control ter- minal. Scrape off the mold attached.		
		Red cord pin (+)			
3)	Cordless terminal (when power is supplied through cordless terminal)	Some plastic mold is attached around the red and/or white cord pin, causing insulation.	Poor contact of directly connected terminals. Scrape off the mold attached.		
4)	Five pin switches	White cord pin () Even when red and brown cord pins are shortcircuited with another cord, Motor Drive runs. from # 2.	Poor contact of five pin switches. Dust attached on the surface of contact point, or insufficient spring pres-		
	·	By bringing into contact #323 of five pin switches with #322 Motor Drive runs (without connecting the red with brown cord pin).	sure.		
5)	Counter switch	Red cord pin Red cord pin Red cord pin Red cord pin Connect power source with remote control terminal.	Poor contact of counter switch. Dust attached on the surface of contact point or insufficient spring pressure.		
8)	Push button unit	Even though the push button is depressed, no electricity is conducted between the blue and white cord socket. (check with a tester)	a) Split in the socket pin opens. b) Poor contact of #170, and #171 with #165.		
		Yellow cord socket White cord socket Blue cord socket	#167 c #170		
		ii) Even though the push button is not depressed, green and white cord sockets conduct electricity (check with a tester), when S-C knob is set to C.	#8 and #166 make shortcircuit.		
			#166		
7)	Rewind switch	Remove bottom cover #12. No current is conducted between the light blue and white cords.	Poor contact of contact point spring #108 with #103 or any dust or the like between the contact points.		
			#108 White cord #107 Light Blue cord		
	·				

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Part to be checked	Check point	Cause and treatment
8) Snap switch	i) No current is conducted between the blue and black cord terminals when winding up operation has been finished. Shuster release Green	Poor contact between the blue and black cord contact points, or dust or the like on the contact point. Replace snap switch or improve the contact, using tweezers or by cleaning the contact surface.
	Wound up	
	ii) No current is conducted between the black and green cord terminal when shutter has been released.	Poor contact between the black and green contact points or dust or the like on the contact surface. Take the same measure as above.
9) Relay	i)-1 After winding up, depress the push button. Even though a curren of about 130mA flows (use of a power source of constant voltage of 15V with an ammeter is convenient), Motor Drive does not run. i)-2 When shutter has been released, set the S-C knob to S. While the pus botton is not depressed, the power source current of about 100m, flows, but the Motor Drive does not run. i)-1 and i)-2 take place and furthermore, when brown and pink cord, eac connected with the printed circuit of relay, are brought into contact wit each other, the Motor Drive runs.	Replace the relay.
		Poor contact is her
	ii) When power source current flows in the case of i)	Disconnection in the relay coil. Replace the relay.
10) Delay circuit	S-C knob being set to S and C, when the push button is depressed, shutte is released, but no wind-up operation goes, even though the button is released. (At this time, power source current does not flow.)	
11) Shortcircuit inside the Motor Drive	i) Terminal of variable resistor, attached to back plate #10, makes short circuit with a nearby body (e.g. earth metal).	Shortcircuit. Bend the terminal to avoid contact.
	 ii) Brown cord connected with the variable resistor comes into contact with the motor gear. The covering of the cord being removed, it cause shortcircuit with a near body (e.g. earth metal). 	
·	iii) When the counter is set to S, yellow cord on the rewind contact poin makes shortcircuit with the earth. #108 White cord Light blue cord Yellow cord	t a) Make a clearance between #1 and #107. b) Avoid touching of #104 with #103.
	iv)Three terminals of red, orange and yellow cords at the picture fram counter contact makes shortcircuit with a nearby body (e.g. earth, to cover, #3).	
	v) In the Motor Drive provided with a resistor to raise the highest voltage limit (where a resistor of $2\Omega\sim3\Omega$ is attached to the relay printe circuit), the resistor makes shortcircuit with the inside wall of grip.	
12) Motor	The pink cord being disconnected from the motor, and the motor bein directly charged, the motor does not run.	a) Disconnection in the motor. b) The motor brushes are on the dead point. Replace the motor.
•		

			en parte i mantingo materiale un unico carità di estatori son fin recolvinstrata un recilibro finali di francia i finado pi con tanto carità seco	
	Part to be checked	Check point	Cause and treatment	
2. The S-C knob being set to S, the Motor Drive operates normally, but the winding-up does not work at the C position of S-C knob.				
1) :	Snap switch	Even when shutter is released, no current is conducted between the brown and yellow cord terminals. Gray Yellow Brown	Poor contact between brown and yellow cord contact points or dust or the like on the contact surface. Replace the snap switch or, using tweezers, improve the contact or clean the contact surface.	
	Brown cord (#316 D3 and #316 D1, connected with variable resistor)	Remove back plate #10 to see that two cords are disconnected from the terminal of variable resistor #302.	No conduction of current due to the disconnection. Improve the connection.	
3.	The S-C knob being set to S,	the Motor Drive operates normally, but at the C position the firing speed	cannot be changed.	
	Discharge circuit of condenser	Poor conductivity between yellow and gray cord terminals on the snap switch.	insufficient discharge of the condenser.	
		ii) Poor soldering of yellow and gray cords on the snap switch. iii) Poor soldering of 51Ω resistor #291 in the delay circuit.	i) Improve the contact of contact point using tweezers or replace the snap switch. ii), iv) Improve the soldering.	
		#291		
		iv) Poor soldering of gray cord on the delay circuit or poor conductivity of the eyelet.		
2)	Variable resistor	Even when rotating the shaft, resistance of variable resistor #302 and of semi-fixed resistor #293 remains zero.	Poor variable resist and/or semi-fixed resistor. Replace the variable and/or semi-fixed resistor.	
	The S-C knob being set to S, S-C knob set to C, it runs nor	When the push button is depressed, the Motor Drive stops operation, but, with the push button is depressed.	hen the push button is released, with the	
	switch	Black and green cord terminals at the snap switch touch with each other.	Current flows at all times to the relay. Make a clearance between black and	
			green cord terminals.	
5.	The S-C knob being set to S, be change.	when the push button is depressed, the Motor Drive runs continuously, but		
		when the push button is depressed, the Motor Drive runs continuously, but Black and blue cord terminals on the snap switch touch with each other.	at the C position, the firing speed cannot Current flows at all times to the relay.	
۹)	be change.		at the C position, the firing speed cannot Current flows at all times to the relay. Make a clearance between black and blue cord terminals. When shutter is released, Tr3 (#294	
۹)	be change. Snap switch	Black and blue cord terminals on the snap switch touch with each other.	current flows at all times to the relay. Make a clearance between black and blue cord terminals. When shutter is released, Tr3 (#294 2SC735GR) Keeps ON, allowing current to flow to the relay coil.	
۹)	be change. Snap switch	Black and blue cord terminals on the snap switch touch with each other. Poor soldering of green cord at the top of the delay circuit.	at the C position, the firing speed cannot Current flows at all times to the relay. Make a clearance between black and blue cord terminals. When shutter is released, Tr3 (#294 2SC735GR) Keeps ON, allowing current to flow to the relay coil. (+) Snep switch	

Part to be checked	Check point	Cause and treatment
3) S-C change-over switch on the push button unit	S-C knob being set to C, poor conductivity is found between yellow ar green cord sockets on the push button unit, and S-C knob being set to poor conductivity between blue and green cord sockets on the push but ton unit (In this case, however, a diode being built in, check the conductivity by connecting green cord socket to \oplus and blue to \ominus . Refer to Fig. in 1-6)-i).	S, push button unit. t- Same as 2), when shutter is released,
	Lource, the Motor Drive continues its operation until the counter indicate ing or releasing of the push button).	es zero (0) (regardless of S or C setting of
Relay	Relay switch keeps its ON position.	Replace the relay.
7. The S-C knob being set to S,	when the push button is depressed, the shutter releases more then once.	
Push button switch	•	Poor contact of push button switch. Improve contact of #170, and #171 with #165.
		-#165
	depressed, the Motor Drive operates, but it does not stop, when the but er takes place, even when the highest voltage limit does not exceed 15V	
1) Snep switch	i) Relative position of snap pin #31, which is in contact with the lever snap switch, to snap lever #30 is not correct, as shown below:	When roller #43 mounts on the cam (#45), as shown below, and the snap switch is change over, the breaking force, though exerted on the Motor, will be not overcome, causing releasing of shutter once more. Roller (#43)
	#31 is displaced toward the lever of snap switch, respective to #3 ii) Lever of snap switch is bent as shown below:	i) Correct the relative position of snap pin (#31) to snap lever #30 as below: (#31 is an eccenter pin)
	As a result of i) and ii), changing over of the snap switch occurs in a potion as shown below on the cam (#45): Roller (#43) Cam (#45)	ii) Make straight the lever of snap switch or bent it, as shown below by two-dots-dashed line.
	Note: The voltage limit where the Motor Drive does not stop running, referred to as "the highest voltage limit", which is to be 15V (using constant voltage power source), when the camera is not loaded with filt	a
2) Long film coupling switch	Contact springs #34 and #35 for the long film coupling switch provide too strong contact pressure.	Too strong contact pressure causes delay to revolution of snap lever #30, when the cam moves back, resulting the same way as 1),in delay of change over the snap switch. Weaken the contact pressure (suitable value: about 30 gr.).
3) Long film lever #29	Wind-up friction nut #12, pressed on to the wind-up shaft #16, preven smooth movement of long film lever #29.	ts Incorrect rotation of #29 causes change over delay to the snap switch, same way as 2). Cut off the hatched portion of the long film cassette lever. The cutting off is carried out for the products since 1972 April.
	-916	- Cut off

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		201A3/ - R. 1U41. B
Part to be checked	Check point	Cause and treatment
4) Motor #13	A motor of too high speed running is assembled.	Too high speed motor causes delay of stopping to the motor, after change-over of snap switch. Replace the motor, if possible, after assuring the running speed of a new motor using a stroboscope. Suitable unloading rotation should not exceed 11,800 r.p.m.
9. The motor runs, but the win	nd-up coupling (#17) does not rotate.	Autorities of the state of the
9-1. Operating sound of the cam	(#45) is heard, which is produced by moving back and forth of the car	namentalenten en este commente en
1) Roller screw #241	Roller screw #241 is broken. #241 #49 #49	Broken roller screw entering between the screw and the counter base plate (#75), prevents the rotation of small bevel gear #41. Replace the broken roller screw.
(%)	No fear of such breaking for the products since 1972, Fe	
2) Third shaft #58	Gear of third shaft #58 is broken. (In this case, however, when the came is not mounted, the wind-up coupling ring (#17) will rotate.)	The third shaft does not work cor- rectly. Replace third shaft #58.
3) Third shaft stopper #343	Third shaft stopper #343 falles off. (In this case, however, when the camera is not mounted, wind-up coupli #17 will rotate.	The third shaft does not work correctly. Replace the stopper (#343) in #5. Apply adhesive.
9-2. Only the sound of the moto	r running (no sound of the cam) is heard.	
1) Wind-up paul #21	Wind-up pawl #21, opens, and cannot return.	The rotation torque of the pawl is not
	#236 #20 #22 #22 #22 For the products since 1972, Jan. two pawls #21 are use	transmitted to wind-up ratchet whee! #22. For the products before 1971 Dec. attach two pawls, if the pawl has opened.
2) Second shaft clutch pawl #353	The second shaft clutch pawl does not fit.	The torque is not transmitted to the second shaft. Improve the movement of the pawl, taking caution of the dead point of the spring.
3) Wind-up motor pinion #71	Set screw #275 for wind-up motor pinion #275 is loosened.	Wind-up motor pinion #71 rotates idle. Fasten the set screw (#275) and apply adhesive. Take caution not to let the adhesive enter the motor.
9-3. Running sound of the motor No sound of the cam is hear	as well as an exordinary sound is heard, d except in the case of 2)-ii).	
1) Large #20 and small #41 hevel gears	Large and small bevel gears do not engage but slip, producing sound. In this case, when the camera is not mounted, wind-up coupling #17 wire rotate.	a) Too thick counter cam washer #318. b) Too thin wind-up thrust washer #329. Replace the washer.
2) Gears of wind-up shaft #16, of large bavel gear shaft #19 and wind-up idle gear #28	i) Any gear is broken. When the camera is not mounted, the wind-ucoupling #17 will rotate in most cases. ii) Broken gear enters between the gears. In this case, operating sound of the cam is heard.	p Breaking of any gear prevents trans- mission of the torque. Replace the gear.

20FA97-R. 1041. B

Screw #62 (1.4mm US-2) Motor (#13) Note: In the products since 1972 April, E-sh the falling off (Fig. 4) 2) Rewind gear made of Delrin Rewind gear #122 is detached from gear meta set screw #275 on the rewind motor pinion #1	ng speed adjusting knob set g out of the disorder is not meer takes place sometimes. firing speed other than H. d the power source current makes shortcircuit. The wird-up compition), the power source being switched off. o that it touches the motor of that it touches the motor at clutch gear (#351) (In wormal condition) f aped clip is used to prevent 1 #125, interfering with the Rewind motor pinion cannot rotate.
When the Motor Drive is operated with its first to H (setting to other speeds will do, but find is o easy), the wind-up sound changes. 2) Dissharge elevate for condenser Malfunction of discharge circuit for the condense For easier finding out of the disorder, use a ing cannot be manually rotated clockwise (opposite to the winding-up directly sensor of the second shaft gear is loosened shaft gear. 1) Set-nut on the second shaft sear is loosened shaft gear is loosened shaft gear. Note: In the products since 1972 April, E-shifter falling off (Fig. 4) 2) Rewind gear made of Delrin Rewind gear #122 is detached from gear metaset set screw #275 on the rewind motor pinion #1 set screw #275 on the rewind motor pinion #1 Rewind motor pinion #1 in the products with the push falling off (Fig. 4). 12. Although the rewind lever is turned down, no rewinding operation is carried to the winding-up operation also takes place refer to 1 (Even though the push 11), 12). Even when the Oldham coupling #140 comes	ng speed adjusting knob set gout of the disorder is not near takes place sometimes. firing speed other than H. defective discharge circuit for the condenser. Refer to 3.
to H (setting to other speeds will do, but finding so easy), the wind-up sound changes. 2) Dispharge circuit for monutering and the condense of the condense	meer takes place sometimes. firing speed other than H. The power source current makes shortdrault. The wind-up couplition), the power source being switched off. The power source current makes shortdrault. The wind-up couplition), the power source being switched off. Second shaft clutch gear #351 cannot rotate. Fasten up the set-nut firmly. Do not forget to apply adhesive and to drill a hole in the threaded part of second shaft (#62) (In wormal condition) I #125, interfering with the Rewind motor pinion cannot rotate. Reattach the gear (#122) to the metal
11. Although the push button is depressed, no wind-up operation is obtained, an ing cannot be manually rotated clockwise (opposite to the winding-up direct great of the second shaft great is loosened shaft great in the second shaft great is loosened shaft great in the falling off (Fig. 4) 2) Rewind great made of Delrin Rewind great #122 is detached from great meta set screw #275 on the rewind motor pinion #1 set screw #275 on the rewind motor pinion #1 Rewind great #122. Although the rewind lever is turned down, no rewinding operation is carried to takes place refer to 1 (Even though the push 11), 12). Even when the Oldham coupling #140 comes	firing speed other than H. condenser. Refer to 3. d the power source current makes shortcircuit. The wind-up compition), the power source being switched off. o that it touches the motor of that it touches the motor fortate. Fasten up the set-mut firmly. Do not forget to apply adhesive and to drill a hole in the threaded part of second shaft (#62) (In sormal condition) f aped clip is used to prevent 1#125, interfering with the Rewind motor pinion cannot rotate. Reattach the gear (#122) to the metal
1) Set-nut on the second shaft gear Set-nut on the second shaft gear Set-nut on the second shaft gear is loosened s #13. Serew #62 (1.4mm US-2) Note: In the products since 1972 April, E-sh the falling off (Fig. 4) Prewind gear made of Delrin Rewind gear #122 is detached from gear meta set screw #275 on the rewind motor pinion #1 Rewind gear (#122) Rewind gear (#122) 12. Although the rewind lever is turned down, no rewinding operation is carried 13. 14. Although the rewind lever is turned down, no rewinding operation is carried 15. If no winding-up operation also takes place refer to 1 (Even though the push 11), 12). 26. Even when the Oldham coupling #140 comes	o that it touches the motor o that it touches the motor of the content of the c
Set-nut on the second shaft gear is loosened segar #13. Serew #62 (1.4mm US-2) Note: In the products since 1972 April, E-st the falling off (Fig. 4) Rewind gear made of Deirin Rewind gear #122 is detached from gear meta set screw #275 on the rewind motor pinion #1 Rewind gear (#122) 12. Although the rewind lever is turned down, no rewinding operation is carried in the push in 1), 12). 13. Even when the Oldham coupling #140 comes	Second shaft clutch gear #351 cannot rotate. Fasten up the set-nut firmly. Do not forget to apply adhesive and to drill a hole in the threaded part of second shaft (#62) (In wormal condition) aped clip is used to prevent 1#125, interfering with the Rewind motor pinion cannot rotate. Reattach the gear (#122) to the metal
the falling off (Fig. 4) 2) Rewind gear made of Deirin Rewind gear #122 is detached from gear mets set screw #275 on the rewind motor pinion #1 Rewind gear (#122) Rewind gear (#122) 12. Although the rewind lever is turned down, no rewinding operation is carried in the push set of	1 #125, interfering with the Rewind motor pinion cannot rotate. Reattach the gear (#122) to the metal
12. Although the rewind lever is turned down, no rewinding operation is carried 1) If no winding-up operation also takes place refer to 1 (Even though the push 11), 12). 2) Wind-up switch Even when the Oldham coupling #140 comes	
If no winding-up operation also takes place refer to 1 (Even though the push 11), 12). Wind-up switch	tor (#13)
11), 12). 2) Wind-up switch Even when the Oldham coupling #140 comes	iout.
2) Wind-up switch Even when the Oldham coupling #140 comes	button is depressed, the Motor Drive does not run) $=$ 1), 2), 3), 4),
tact spring #107.	Poor contact of rewind contact spring A #107. C #103 with contact spring A #107. To improve the contact, the following construction has been adopted for the products since 1972, May.
	#1105 to added as shown shows, and the thread heapth of #225 has been changed from 7.5 to 8.5mm.
3) Counter switch After removing bottom cover #12, turn down the wind-up switch to ON. Bring into contact with rewind contact spring #103, and the Mo	the plus (+) of power source a) if counter ratchet wheel #76 is
	place #76 and #83. b) If counter stopper #95 is displaced to the left, move it to the right. c) If dust is found on the contact point, clean it.
4) Relay When removing grip #2, and bringing into concord, connected to printed circuit of relay #1	

	EQUIDADES CONTRACTOR C	
Part to be checked	Check point	Cause and treatment
13 Althorasch this recoded boson is	returned to its original position, the rewind coupling (#137) does not come	·
	reading to its original position, the remind coupling (\$137) some of	sown.
Oldham coupling #140, rewind coupling cover #255 and Oldham coupling shaft #333	Rewind coupling screw #256 is disengaged, from between Oldham coupling #140 and the flange of Oldham shaft #333. #333 #256 (In the normal assumbled condition)	No coupling. Bring back rewind coupling screw #256 to between Oldham coupling #140 and Oldham shaft #333. If it is liable to falling off, bend #115 slightly. If it is best too much, how- ever, the motor will be charged too heavy, owing to large friction between #256 and #333 and #140.
14. While being revound, the re	wind lover raturns of itself.	
Rewind click spring #338	i) Rewind click spring #338 is too weak.	To increase the spring action of #338,
· ·	is seemed when spring wood is too week.	make larger the angle of #338 by bending.
,	ii) As shown below, rewind click spring #338 is so attached that rewind click pin #339 engages insufficiently with rewind coupling lever #115.	#115 and #339 are liable to disengage Displace #338 to prevent the pos- sibility of coming off.
	- 3339	
15. The picture frame counter d	loes not advance.	
1). Spring #86	Spring #86 is displaced.	The spring extends outward, thus let- ting the stop pawl (#81) disengage.
2) Advance pawl spring #217	i) Advance pawl spring #217 is displaced. ii) Advance pawl spring #217 interferes with #1.	Advance pawl #82 does not engage with counter ratchet wheel #76. i) Change the form to avoid coming off. ii) Change the position of #1 and #3 or the form of the spring.
3) Advence pswl #82	Advance pawl #82 operates but counter ratchet wheel #76 is not advanced beyond one claw.	Incorrect position of back and forth movement of advance pawl #82. Bend counter lever #80, using a wrench, so that advance pawl #82 can advance the ratchet wheel one claw, but not two claws. #82
		#90 - #76
4) Counter stopper #95	The counter does not advance only when it is set to S.	Incorrect position of counter stopper #95. Correct the position and fasten up the set screw, and, there-after, apply ad- hesive.
16. Although the wind-up knob	is lifted, the counter does not return to S.	
1) Spring #86	Spring #86 is displaced.	The spring extends outward, thus letting the stop pawl (#81) disengage.
Picture frame counter scale #92 and index plate #93	Picture frame counter scale #92 interferes with index plate #93.	The scale dial does not return. Detach the index plate #93 and, using adhesive reattach it.
3) Picture frame counter scale #92 and counter window #190	Picture frame counter scale #92 interferes with counter window #190.	The frame counter scale does not return. a) If counter center screw #72 is loosened and ratchet wheel #76 comes out, causing interference of #92 with #190, fasten up #72. b) If no clearance is between #92 and #190, use a proper washer between #10 and #1, when attaching the back plate (#10).
4) Switch contest spring #59	Too strong force of switch contact spring #89.	Counter ratchet wheel #76 does not return normally. Increase the contact pressure (20 ~ 30 gr will be suitable).

<u>Parts li</u>	st			20	FA97 -	R.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference		Remarks
部品番号	名称および形状	1台分侧数			販売区分	儒 考
20FA97- 1	Body	1			0	
A 1-1	Body (supplement a hole)	1	and the confidence of the first of the confidence of the confidenc		0	
Constitution to the constitution of the consti	Grip	TO CHARLES TO COLOR OF THE PROPERTY OF	Member records and the excellence of missional and records are mission are ex-	Coupe and Michael Council (Michael Street		
2		1		9	0	reduction in a control of the contro
The the transfer of the transf	Base plate	1.	B 12	A 4, 5	Δ	
4	Cam shaft casting	g-mang)	C4	4	\triangle	y and a second s
5	Cam shaft casting B		C6	4	Δ.	
6	Bottom plate		D8	8	A. Samuel	
7	5-pin connector	pood.	A7	2	Δ	
8	S-C cap	1	H5	46- A	\triangle	ju u constituir vasta (Storius et suur et et en
& 8-1	S-C cap (supplement a slot)	1	H5-1	10	Δ	бонности 1900 година — 460 организация стала в понившенный населений подав
9	Rewind casting			6	0	антом основного постоя на принасти на прин
10	Back plate	1	Rl	TÇE A	Δ	
^A 10-1	Back plate (moved a hole)	1	Rl-í	8		от на менения до при
11	Top cover	and the state of t	AlO	1	Δ	arak-mahanan kata kata mangangga pangga p
12	Bottom cover	1		grand	0	
13	Micro-motor		B13	3	Δ	
14	Wind-up top bearing		Bl	4, 6	ОД	
15	Coupling screw	-		grand)	0	The second secon

E> > 2.7	Black and the second se	I n	To a	В при	alan ina manana minina manana manana a	R.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.		Sale	Remarks
部品書号 20FA97-	名称および形状	1台分個數	多黑都組品書号	参照図書	販売区分	有 考
16	Wind-up shaft	Amenda of the state of the stat	B1	4, 6	A	
17	Wind-up coupling			and the second s	0	
18	Counter cam			4	0	
19	Large bevel gear shaft			4	0	
20	Large bevel gear	1	B 9	amentation encountered as a female as a fe		
21	Wind-up pawl	2	B9	4	Δ	
22	Wind-up ratchet	enem constanting and constanti		4	0	
23	Pawl axle	2	В9	4.	Δ	
24	2nd shaft bearing	1	C4	4	ОД	
25	Plate bearing	1		4	0	
26	Wind-up idle gear	1		фициализмости от технология и под от под	0	
27	Long film switch plate	1	Dl	3	Δ	
28	Wind-up bottom bearing	ere er og er o	D8	8		
29	Long film lever		Dl	3	Δ	and the second s
30	Snap lever	american en antique en distribuir de constituir de constit	D4	8	Δ.	ne mare en discontration de la contration de la contratio

				20	FA97 - 1	R.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference	Company control of the control of th	Remarks
部品番号	名 称 および 形 状	まだ分側数			販売区分	偏光
20FA97-	Snap pin					
To].	Sonap prin	Pro-d	D4	8	Δ	CONTRACTOR
Section and the second and the secon	Wind-up friction nut	1	.1 kg -a	3	0	
3,7	Long film switch collar	2		3	0	
N. A.	Switch spring contact A		₽£	3	Δ	
35	Switch spring contact B		D77	**************************************	· 6000000000000000000000000000000000000	
. 36	Switch slide lever	1	D3	8	Secretaria de la constancia de la consta	
37	Switch mount	1		3	0	
38	Insulator plate	3		3	0	
39	Wind-up signal pin	1	Dà	8	Δ	
40	Cam shaft thrust metal	1	C3	"7	Δ	
41	Small bevel gear	1	C 3	A A	Δ	THE PARTY OF THE P
△ 41-1	Small bevel gear	1	C3	gering		
42	Cam shaft	1	C3	7	- Δ	
43	Roller (long)		C3	- A		Equivalent to 20FA94
4 3-1	Roller (short)	annumental a	C3	7		#105
44	Steel ball race	1	C3	7		Equivalent to 20FA94 #108
45	Cam shaft		C3	man tampo unu un quanti tri di mante e mange per per per per per per per per per pe	Δ	

on freithre as measann am bronnton is troublette in this sign		7	20FA97 - R.1041.B			
Part No.	Name and Shape	Pcs. per	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks
部品番号	名称 および 形 状	1台分侧数	参照部組品番号	参照以番	Į.	偏考
20FA97-	Cum shaft gear			·		
46		D 1	C3	7	Δ	ONCOMPANIA PROPERTY OF THE PRO
-17	Cam shaft collar . 0) 1	C3	7	Δ	Equivalent to 20FA94 #111
15	Cem shaft flange) 1	C 3	7	Δ	Equivalent to 20FA94 #112
A	Small bevel gear collar		A 7			Equivalent to 20FA94
50	Steel ball 1/16"	34	C 3	4, 6 7	ОД	Equivalent to 20FA94 #101
52	Steel bull lmm) 32	C 3	7	Δ	Equivalent to 20FA94 #102
52	Cam shaft bearing B) 1		4	0	
53	Cam shaft stopper			4	0	
54	Cam shaft stop nut) 1		4	0	
55	Cam shaft bearing A	1	C4	4	ОД	
nor - un realiza nje industr ance no re custo statu a citalizani v sili inacij	3rd shaft					
56	() 0 00 0	1	C2	7		
57	3r1 shaft cam thrust) 1	C 2	7	ΟΔ	And the second s
58	3rd shaft gear	1	C 2	7	\triangle	
59	3rd shaft cam	1	C2	7	Δ	
60	3rd shaft collar	1	C 2	7	_	Equivalent to 20FA94 #123

				201	PA97 - I	R.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference	Term of Sale	Remarks
部品番号	名 称 および 形 状	1台分個數	参照部組品番号	, -	販売区分	備
20FA97-	3rd shaft bearing					
	a	CHICAGO PROPERTING CONTRACTOR CON				
61		1	C4	4		de constant de con
По бъекто в поста обрана у мета и слиго не раводу.	2nd shaft		EPOP ORTOGORISHINGSING CONCLUMN NOVEMBER ORTOG			
62-1		de la		A		
(, 2, 4, 2,		1		4	0	
			dia di trono controlo di Controlo e e del controlo del co			(Blank)
63		AND THE PROPERTY OF THE PROPER				
			NATIONAL SECTION OF THE SECTION OF T		***	produce of the state of the sta
	2nd shaft bearing	Table Control				
64	(0)	1	C 6	4		
						portinicos necesarios con propriedos es concessos con consessos es
	Shutter release shaft					
65		1		4	- 0	
materia de la composition della composition dell						www.awweggjia.eyaligicii.co.ewwawiaegiindi.egijipiyalii.co.eegiinegiinegii
	Release shaft collar		_			
66		1	B12	4,5		
Annual Control of Cont	Release shaft eccenter		trimotellite mentau maa seessa keessa maaasta maaasta maaasta maaasta maaasta maaasta maaasta maaasta maaasta m			we the American American States and American American Communications
67	pin	1	B8	4	Δ	
	Sa James		ANTO DESCRIPTION OF THE PROPERTY OF THE PROPER	——————————————————————————————————————		
	Release shaft lever A					
68	6.7	1	B8	4		
######################################				Alejohouwin habel kastar agai ord topet town orth		
	Release shaft lever B					
69	23	1		4	0	
Demographic subsection and section and sec			ga, C. (ca signing diseases is a casa a sea construction of the case of the ca			(Blank)
70						
70					anno tay merchana a com a coma de la come de	
	Motor pinion gear					
71	()	1	B13	3 .		
			STE n-El-Original (Michael Color) (Michael Color) (Michael Color) (Michael Color) (Michael Color) (Michael Color)			
	Counter center screw	· · · · · · · · · · · · · · · · · · ·	-			
72		1	v crement of Coldina	7	0	
	Frame counter shaft	autore de la companya	SCATTARIATION AND APPLICATE STATE OF THE STA	AND THE RESIDENCE OF THE SECOND S		 Orazonako eta esta esta esta esta esta esta esta
73		1	SEGUL CACAMITY COMMITTEE C	7		
1 /		allo	TO BALL DE CONTRACTOR DE CONTR	1		
	Bevel ratchet			,		ann ann Mailteagacagas (cait
71		,	Tra .	7 8	01	
T			do "ap"	1 9 U		
ROMADOMANA	Frame counter base plate					
75			1			
74	Frame counter base	2	F4	7, 8	ΟΔ	

						1.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.		Sale	Remarks
部品番号	名 称 および 形 状	1台分侧數	多照部組品番号	参照図器	販売区分	傷
20 FA 97-	Frame counter ratchet	T.	F4	7	Δ	
	R-pin		ger vor enterforfattiggsperaerus repress anno sent settlesse proprieteriore	parameter de la companya del companya del companya de la companya	berkenkrists das litatis assurbani visussi saj	and the second s
77		1	± n€		0	
78	R-lever spring holder	1	Fl	7	Δ	
79	R-lever	1	Fl	7	Δ	and the state of t
	Frame counter lever		amaaninetta yoo geelgeessa ah oo saasaa saa saa saa saa saa saa saa s	and one provides a support, so or not support	TO SECURITION OF THE PARTY OF T	
80		1	F6	7	Δ	
81	Stop pawl	1	F5	7	Δ	
82	Advance pawl	1		7	0	
83	Frame counter	1	F4	7	A.	
84	Nut Ml.4	1		7	0	ggg gan en ligger i navez proud en eren kriste en
85	Stopping pawl axle	1	Fl	7	Δ	
86	Spring	1		7	0	
87	Feed pawl collar	1		7	0	
88	Counter switch molded plate	.1	F 2	7	Δ	annesse de la seria procedigia con del deposito del del Para Maria.
89	Switch contact spring	1	F2	7	Δ	
90	Contact point	3	F2	3, 7	Δ	

		20FA97 - R.1041, B				
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Fig. No.	Sale	Remarks
部品番号 20FA97-	名称および形状	1台分侧数	多州部組出書 少	多限別書	販売区分	
LOIR) -		000000000000000000000000000000000000000			mejolad regulation	(Blank)
91					Anna cannana anna anna anna anna anna an	
no de la companya de	Frame counter scale			and the second s		
92	3	1		1	0	
93	Frame counter index plate]		1	0	The specific of the state of the specific of t
	Frame counter roller			Artic ments describe an analysis of		
94	Trame codition former	1	F6	7	Δ	
	Frame counter		No Servició No No Servició (по не по чето по	CONTRACTOR OF THE PROPERTY OF	MATERIAL CARLOTTE COLOR SECTION CONTRACTOR COL	т от стото в водит в до образования до одно од одного од одного од одного од
95	stopper			7	. 0	
96						(Blank)
			NA LANGESCHOOL CONTRACTOR CONTRAC			
97	Pillar A	1		4	0	
98	Tripod screw	1		5	0	
99	Tripod screw knob	1		5	0	
100	Tripod screw plate	1		5	0	
101	Rewind switch collar	2		6	0	to-convenient Anna State (in the state of th
102	Rewind switch insulator	1	director a granticul de Calle e de Santo Connecto su graco e de Calles a come de Calles e	6	0	
	Rewind switch contact					
103		1	E 4	6	Δ	de and community
104	Dust cover collar	2		5	0	
105	Rewind switch insulator	3	atteret date de trata de la promoción de contra con con contrata de la contrata del contrata del contrata de la contrata del la contrata de la contrata del la contrata de la contrata del la contrata de la contrata del la contrata del la contrata del la contrata del la contrat	6	0	· Control of Control o

20FA97 - R.1041.B Term of Part No. Name and Shape Reference Pes. per Reference Remarks Unit Subassembly No. Fig. No. Sale 1 台分個数 名称および形状 Æ, 部品番号 参照部組品番号 参照図書 额壳区分 20FA97-Switch contact support B 106 6 0 1 Switch contact A 107 Δ 1 E5 6 Switch contact B 108 1 E6 6 cuivalent to 207A94 Contact point 1 A9 (4) 109 \triangle 2, € -3446-Bouivals. Contact point (disk) to 207494 84 110 Δ 3 2, 6 E5. E6 Switch contact support 0 111 1 6 Rewind lever Δ 112 1 A5 2 Insulating nut 0 113 1 2 Rewind lever knob \triangle 114 A5 2 1 Rewind coupling lever 115 Δ A6 1 2 Rewind collar 116 \bigcirc 1 2 Rewind lever shaft 117 Δ 1 **A**6 2 (Blank) 118 Worm shaft bearing 0 1 6 119 Equivalent Cam adjusting disk to 20FA94 0 #100A 120 1. 4

				20	FA97 -	R.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks
部品番号	打 縣 および 形 妆	1台分個數		多区层	販売区分	· 備 考
20FA97- 121	Worm	genng		6	0	
122	Rewind gear		E1, E3	6	Δ	and the second s
123	Rewind motor pinion	1	B13	3	00	
124	Friction spring holder nut	1	El	6	ОД	
125	Rewind gear bearing hub]	El, E3	6	· 🛆	
126	Friction spring holder	1	El	6	ОД	
127	O/C lever spring	1		5	0	
128	Dust cover A	1		5	0	
129	O/C idle gear, small	1		-5	0	
130	O/C idle gear, large	· ·		5	0	
131	Segment gear	1	B11	5	Δ	
132	Rewind lever screw	1		2	0	Equivalent to 20FA30 #653
133	O/C lever knob	1	B11 .	5	Δ	
134	O/C lever pin		Bll	5	ОД	
135	O/C lever	1	B11	5	Δ	
135A	O/C lever screw	1	B11	5	Δ	

				201	7A97 - R	R.1041.B	
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks	
部品番号	名称および形状	1台分個数	参照都組品番号		販売区分	49 , 45	
20FA97-	Rewind shaft	CONTRACTOR					
136		grand the second	B 5	5	Δ		
	Rewind coupling		STATES CONTROLLED AND AND AND AND AND AND AND AND AND AN	ZERONIO (KINEDO MESTO CREM CALITE			
137		grand)	B5	5	Δ		
138	77-жи это-от и до 45 ройн зайн вышие гроск айтыхна кондуу додук изм это осоорог о они одиналы найна догам.			and the second s		(Blank)	
139	Dust cover B	1		5	0	promotogonomou promotogonomo (na promotogonomo (na promotogonomo (na promotogonomo (na promotogonomo (na promo	
140	Oldham coupling			5			
141	O/C bearing	1	B12		ОΔ		
142	Helical gear			5	0		
143	O/C coupling	g and a second s	B4	5	Δ		
144	O/C gear nut	1		5	0		
145	O/C gear	1	B4	5	Δ		
146	Spring seat, top			5	0		
147	Spring seat, bottom	g and		5	0		
148	Herical gear bearing, top			5	0		
149	Worm wheel bearing, bottom			6	0		
150	O/C pin	1	B4	5	Δ		

Reference Subassembly No. Reference Term of Fig. No. Sale Pcs. per Unit Remarks Name and Shape l'art No. 名称および形状 1台分侧数 參照部組品書号 参照图器 販売区分 y_j 海温泰号 20FA97-Grip cover 0 9 151 1 0/C key holder 1 9 0 152 Equivalent 0/C key index to 20FA30 #640 1 9 153

					20FA97 - R.1041.B			
l'art No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks		
部品番号	名称および形状	1六分侧数			販売区分	前		
20FA97-	S-C pin	Service Communication Communic		,				
154		4	J3	9	Δ			
	S-C pin molded	Annual desiration of the state	. 4 44- 1			·		
155	base	1	J3	9	Δ			
156						(Blank)		
157								
158	Printed circuit	1	J1	9	Δ			
159	Printed relay circuit	1	В7	6	. 🛆	довершено до от от том водом в до от		
160	S-C indicating plate	1	·	10	0			
161	S-C knob	1		10	0			
161-1	S-C knob	1		10	0			
162	S-C socket molded	1	Н4	10	Δ			
163						(Blank)		
163-1	S-C ring pin	1		10	0			
164	S-C click plate	1		10	0			
165	Trigger button switch plate	1	Hl	10	Δ			
166	S-C contact spring	1		10	0			
167	Trigger button	1	Hl	10	Δ			
168	S-C side knob	2	H2	10	Δ			
169	S-C lock spring	1	H2	10	- Δ	·		

<u> </u>				20		R.1041.B
l'art No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks
部品番号	名称および彩状	1台分侧数	多照部組品番号	参照図書	販売区分	偷者
20FA97-	Trigger button contact	and the second s				
170	spring A	General descriptions of	НЗ	10	Δ	
	Trigger button		- i, f			
171	contact spring B	1	Н3	10	Δ	Months and the second s
172	S-C printed circuit	1	НЗ	10	Δ	од обласно с од основности
173	Insulating plate	2		10	0	
3 7 4	S-C contact collar		TRANSPORTANT AND		personal and the second se	
174		2	SANSTON COST E TEXTOS ESTABLISTE COSTONICO DE RANGO ACTUALO DE RANGO (CONTRACTO DE RANGO (CONTRACTO DE RANGO (10	0	
on, we make the most	Rivet	THE REAL PROPERTY OF THE PROPE	D1×3			
175		7	H3×4	3, 10	Δ	
176	Trigger button rivet]	ні	10	Δ	
177	S-C socket	4	H4	10	ОД	
A	Steel ball 3/64"	***************************************	terkendende in segenten er stockele generalenten verken sterk vire vor verken sette ver	***************************************		Equivalent
270		<u></u>		0, 10		to 20FA94 #67
	Trigger button shaft		CONTROL OF THE CONTRO		transiala in terresia de la completa e s _e constitución de la constitución de la constitución de la constitución	
179		1.		10	0	
. 180	S-C knob collar (short)		H5	A	Δ	
180-1	S-C knob collar (long)	1	H5-1	10	Δ	
181						(Blank)
182	Frame counter preset button	1	and Committee of the Co	. 8	0	
The second secon	Speed selector knob (narrow slot	1		A-9-	0	
185-1	Speed selector knob (wide slot)	1		8	0	
	VR adjusting ring	1			0	
184-1	VR adjusting ring	1		8	0	

					20	FA97 -	R.1041.B
l'art No.	Name and Shape		Pcs. per	Reference	Reference	Term of	Remarks
部品番号	お 株 および 形	14	Unit 1台分個數	Subassembly No. 多照解組品書号		Sale 販売区分	備考
20FA97- 185	VK click	(1	Rl	8	Δ	
<u>^</u> 185−1	VW click		1	R1-1	8	Δ	
	Preset button ring	(D)		Rl	8	Δ	один на населения в полизоння
A	VR nut	(<u>a</u>)	The state of the s	Announte Vision in the Advance of the Advance of the Environ and the Environ a			м толог торитовиченно — на обичал страта му из се светра филос
38/7	THE PROPERTY OF THE PROPERTY O						
188	Cover plate		1	·	1, 8	0	
189	Shutter speed table				8		pozalazilika 2004ka hadi zilipika koju u konstitutoro ka hadi
190	Frame counter windo	w (;;)	1		8	0	pousitive attraction of the factor of the fa
191	R-guide plate		1		8	0	
192	R-button	国团	1		8	0	
193	R-slider	II)	1		8	0	
194	R-safety nut		· .	R2	8	Δ	
195	R-safety button		1	R2	8	Δ	
196	Safety button guide		1	R2	8	Δ	
197	3-pin socket	(0))1	1	A 2	. 2	Δ	
198	3-pin socket nut	QI)	1		2	0	
199	3-pin		3	A 2	2	Δ	·

20FA97 - R.1041.B Reference Term of Remarks Part No. Name and Shape Pcs. per Reference Subassembly No. Fig. No. Unit Sale 参照図番 販売区分 F_i 名 称 および 形 状 1行分開數 多照那組品番号 部品番号 20FA97-3-pin molded ring Δ 200 1 A2 2 Ball bearing 882.5 - 6 0 7 4 201 Ball bearing SS2 - 5 6 202 1 (Blank) 203 Tripod screw socket \bigcirc 204 1 2 Guide plate 0 2 1 205 Light-tight seat 0 $O\Delta$ 206 1 AlO 1 **A** 1 Equivalent Dust cover to 20FD11 \bigcirc #99 1 207 **A** 2 Equivalent Dust cover to 20FD11 ()1 #98 208 Leatherette A 0 209 1 1 0 1 1 210 Leatherette B 15 (44) L 210-1 Leatherette B 1 1 3rd shaft torsion spring C. Tr. Tuttor 7 $O\Delta$ C2 1 211 Cam shaft spring 7 \triangle 1 C3 212 Equivalent 3rd shaft thrust spring to 20FA94 C2 7 \triangle #124 (0)(1)() 1 213 Wind-up pawl spring 2 2 4 214

Reference Term of Pcs. per Unit Remarks Reference Part No. Name and Shape Subassembly No. Fig. No. Sale F_{j} 參照部組品番号 參照図書 販売区分 名 転 および 影 状 1台分侧数 部品番号 20FA97-... Frame counter spring 0 ത്ത്ത 3 1 215 Stopping pawl spring 7 1 216 Advance pawl spring 7 217 1 Wind-up coupling spring \bigcirc 1 218 (0)))) 1 R-safety button spring 8 \triangle 1 R2 219 10))) Long film switch spring 1 3 220 - \bigcirc Frame preset button spring \bigcirc 1 1 221 (0)))) Wind-up shaft friction spring 0 70)) 1 3 222 O/C pin spring 5 **B**4 223 Rewind button lever spring 0 (MINIM) 1 224 Rewind friction spring $O\Delta$ 6 1 El 225 Rewind coupling spring 0 1 226 (dillille) Trigger button spring 0 10 1 227 Equivalent S-C click spring to 20FA94 (dillin)

20FA97 - R.1041.B Reference Reference Term of Subassembly No. Fig. No. Sale Remarks Name and Shape Part No. Pcs. per 1台分侧数 参照部組品番号 参照図書 販売区分 2 名 弊 および 形 状 部品番号 20FA97-Large bevel bottom washer 229 1 4 0 VR washer 0 VR adjusting washer A VR adjusting washer B (0) 271D Δ VR adjusting washer C 2330 Δ VR adjusting washer D VR adjusting washer E 2715 Segment gear washer A 0 \bigcirc 0.2t 1 5 232 0.1t Segment gear washer B 5 232B 0.05t 1 232C Segment gear washer C Equivalent O/C idle gear washer to 20FA30 (0)#974 2 5, 6 \bigcirc 233 Helical gear washer A () \bigcirc 1 5 0.3t 234A Helical gear washer B 0 5 1 \bigcirc 0.4t 234B Helical gear washer C 0 5 1 0.5t 234C Helical gear washer D 5 1 0.05t 234D 0 0.2t 5 234E Helical gear washer E 1 2nd shaft washer A 1 0 0.1t 235A

20FA97 - R.1041.B Reference Term of Name and Shape Pcs. per Reference Remarks Part No. Subassembly No. Unit Fig. No. Sale 参照部組品番号 Æ, 名 称 および 形 状 1 台分侧数 参照図書 販売区分 部品番号 20FA97-2nd shaft washer B \bigcirc 0.2t 1 235B 4 2nd shaft washer C **(0)** 235C 1 \bigcirc 0.4t 4 Equivalent to 20FA30 #819 A Wind-up pawl screw 3 (Minn) 236 4 Switch spring holder m 0 1 3 237 Screw 1.7R - 3 special 2 3 0 238 Slide lever screw 1 8 \bigcirc 239 Pillar B 240 1 $O\Delta$ C3 7 Roller screw 1 241 or III C3 1 241-1 Roller screw Release shaft lever screw 0 242 1 4 Stop pawl axle 7 243 1 Advance pawl screw 7 \bigcirc 244 1 Equivalent Screw to 20FA30 **Minin** 0 7 #810 245 1.4Q - 2.7 ® Frame counter spring holder 0 246 1 3 Rewind button rivet Δ 2 Fl 7 247 (Blank) 248

		20FA97 - R.1041.B						
Part No. 部品番号	Name and Shape 名 称 および 形 状	Pes. per Unit 1台分偶数	Reference Subassembly No. 参照都組品番号	Reference Fig. No. 多照図書	Sale	Remarks 偷 考		
20FA97-	Screw	2	STATE CONTROL SERVICE PROPERTY CONTROL STATE CONTROL SERVICE S			Equivalent to 20FA30		
249	1.7R - 2.5 special			2, 7	0	#853		
250						(Blank)		
251	Screw 1.7R - 3 special	5		5, 6	0			
252	Screw 1.7R - 2 special	7 -		5, 10	0			
253	O/C idle gear screw	1		5	0			
254	Screw 1.4R - 1.2 special	2	B4	5				
255	Screw 1.4R - 3.5 special	2		10	0			
256	Rewind coupling screw	general transcription of the control		2	0			
257						(Blank)		
258	Nut M1.7	1		2	0	Equivalent to 20FA30 #433		
259	Screw 1.4R - 2.7 special	2		10	0	Equivalent to 20FA30 #790		
260	Screw 1.7Q - 2.5 special	4	man de la managamente de construencia de const	1, 9	0			
261	Screw 1.7S - 3.5 special	4		1	0			
262	Screw 1.79 - 3 special	5		1	0	Equivalent to 20FA30 #818		
263	1.7P - 3	4		1	0			

Part No.	Name and Shape		Pes. per Unit	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks
部品番号	名 躰 および 青		1台分個数	多照部組品番号	鲁圆照传	販売区分	偏 考
20 FA 97-	Screw		3			TANAHAR ATAMA	
264	1.7Q - 2 special	Amm	20 =2		1	0	
	Screw		CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL	он ко- чалах изинались избрасовациям посом поченной и ВНА-МА			TOOY OBSESSED HILL WAS REPORTED HELP AND THE STORY OF THE
265	1.4R - 3 special		1		8	0	
		TO JUNE OF THE PROPERTY OF THE		paan-pau-proposely at mise quisi pasparati samininen es sisting dire innination	AND THE RESIDENCE OF STREET, S		admenteriale est in the commentering of the supplication of the commentering
266	Screw		4		2		
	2R - 2.8 special		7				
	3-pin locating pir	Mills.	intermental intermediate when				
267			1		2	0	
	E-shaped clip			november (volume authorite) (vol	4, 6		den de Stalle deserver vertraut des visible de Marie (village de Glave village de Actuarie (de Actuarie (de St
268	E - 17	6	6	H4×4	10	-ОД	
and the control of th			Society of States on States Additional		1.0		
269	E-shaped clip	C	1	n. commission	8		
203	E - 42						
				montal compression of the compre		TOTAL PRODUCTION OF THE PRODUC	(Blank)
270				And Annual Control of the Control of		Online	
		от под					(Blank)
271				Months and the second s			
	Taper pin						
272	TP 1 - 8			B5, C2	5,7		
272			2	D), V2	7, 1	Lecure de la composición dela composición dela composición dela composición dela composición de la composición de la composición dela	
	Taper pin	_	A DO CAMPION OF THE PARTY OF TH				
273	TP 1.6 - 8	C	1	B1	4, 6	00	
			A CONTRACTOR OF THE CONTRACTOR				(Blank)
274			NASCHIPT CONTRACTOR OF THE CON	A STATE OF THE STA			
	Set screw		A 5		3		
275	1.4U - 1.2		-6-	B13×4	4,5	ОД	
		* Agricum and Alleston (1995)	A CONTRACTOR OF THE CONTRACTOR				
275	Set screw	ATTITUDE .	-	B4	5		
276	1.4US - 3					<u> </u>	
	Set screw		A 4	- Andronochis (City)	REMOTE AND TO THE RESIDENCE OF THE RESID	de autro accompanya de la companya d	
277	1.405 - 1.5	(TDIII)		Company and Control of	8	0	
	Screw	ng dipunda (stapa) dinagar ana pangan in na orthonologia (disebatika disebatika disebatika disebatika diseb					
278	1.4R - 1.8	D	2	Biologista Signatura (Constitution Constitution Constitut	7	0	
					1		

		20FA97 - R.1041.B					
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference	STATE OF THE PARTY	Remarks	
部品番号	名 株 および 形 状	1台分個数	多照部組品番号		販売区分	備考	
20FA97-	Screw	3	TO THE PROPERTY OF THE PROPERT				
279	1.7R - 2.5		AAAANAN HATTAA	3	0		
	Screw		mariosan - descue, or processous makes mariodant to a most sense of on 4% a 460 Million (gazacio il zoversaci forgen, romandez allan annamich, vely Wellen er madis.	
280	1.7R - 5	8		9, 10	0		
	Screw						
281	1.79 - 2.5	3		5	0	and pulsability regarding of the work - some day to global polytopic and continues to the "Angle State" of	
Overline and the second	Screw	A 4	AN ALTERNITY PROPERTY AND ALTERNITY AND ALTE	2, 3			
282	1.7R - 2	*	CART CHANGE CHAN	9			
·	Screw	20	general 10 per militar interpretation of the Pro-to-Vicepe Community of Challes (Advisor)	3,5		y recent agent by the grown and the deployers have required about an individual action on a gar and you will obtain	
283	1.7R - 3		Transmission for subsequent to a particular processor and a support to the contract of the con	8, 9 2 _A	0		
eg yearan marka ayan da ayan d	Screw	Anatomorphic Control of Control o	em sancomorphismos	1,2,3			
284	1.7R - 4	23	reference and the control of the con	4,5			
	Screw	CONTRACTOR MEDICOLOGICAL		and the second of the second o	contraction to the service of the contraction of the service of th		
285	1.7R - 8.5 A	2		6	0	galidades expressivas su consideran sono sono sono consideran o sono sono sono sono sono sono sono	
oviest/hampoone	Screw		e de como como de como	AND A STATE OF THE PROPERTY OF	TO COLOR OF THE CO		
286	1.7R - 6	5	AN AND AND AND AND AND AND AND AND AND A	4			
	Screw						
287	29 - 5	4		5	0	allen Majorias (pulsa del socio que o trotto o considera en previo el socio del socio	
enerapponenerite	Screw		And Conference in the Conferen	AND	Decigo de Delinario de Caracidado		
288	1.4R - 4	1	ACCUSATION OF THE PROPERTY OF	3	0		
	Resistor					and do not one new who have the wind place the way which was a second of the order of con-	
289	· 5.1KΩ	2	Jl	9		-	
	Resistor						
290	1KΩ —	1	D5	3	00	and appropriate for a real form of the find of the fin	
	Resistor		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	DUISE IN INCLUDING THE PROPERTY OF THE PROPERT	New West (Management of the Control		
291	51Ω	1	J1	9		particus De constitución de Callingui de Ballenes (1,500 e 44 e conjunto su Provinciones e a cintrol de callingui	
	Resistor	RESISTANT CONTRACTOR C	N PRO PROPERTY OF THE PROPERTY	Ban receipment	opposition of the control of the con		
292	399 229	Card .	Jl	9	Δ		
general main value terminas promovinas a sua \$400 G G	Semi-fixed resistor					y market en	
293	100KΩ	fund	J1	9			

D N.	None and the second	T.	I was a			R.1041.B
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.		Sale	Remarks
部品書号 20FA97-	名称および形状	1台分個數	多州部組品香号.	多用図書	販売区分	例 考
	Transistor	N. C.	THE STATE OF THE S	A CONTRACTOR OF THE PERSON	Appendix and the second	HOLY BUILD BEET STORY BE STORY BEET STORY BEET STORY BEET STORY BEET STORY BE
294	2SC735GR	1	Jl	9	Δ	
	Condenser					
295	10µF CSetE	1	J1	9		THE COMMENT OF THE CO
		. de		7		
KHINOUPFERINCER	Diode					
296	IS 953	1	J1	9	Δ	and the second s
	Diode		part tan distribution for the distribution can wat called subject to the convey, copy as a convey			
297	IS1586	grand, and an artist of the second	TT "7"	3.0	^	
6a J		-	Н3	10		
AND PROPERTY.	Relay					
298		-	В7	6	Δ	
	American restaura materia reproductiva reportura de composito de compo		Milit glad Printers (die ersich ach cit migt an de ach	Market Market Constitution and the second constitution of the second consti	Serichemationem, reconst zone garagazago.	(Blank)
299		ODDINE STREET				
					Sela Selektra kilometri ete cin san kuun kuun kuun kuun kuun kuun kuun ku	
ucconsperience.	Transistor	TO THE PROPERTY OF THE PROPERT		and the state of t		
300	2SC373	1	Jl	9	\triangle	
A CONTRACTOR OF	Toggle switch				on's emaleksayran a carrianoop is a saaah mu	
301		1	D5	3	\triangle	
	VR control			um e co christ no Aontainean acus o con course		
700	canal)		And Dissiply of Anderson States	er den en e		
302	0 - 1MΩ	1		8	<u> </u>	
1000 TO THE TOTAL THE TOTAL TO THE TOTAL TOT	Cord clip	5 5	NOTO CONTRACT OF THE PROPERTY		_	Equivalent to 20FD4
303		-5-			0	#15C, 6KB #425
	Washer					
304	•	4	n eeu provincian in	The state of the s	0	опения по
-	per consider violent des se Californe entertities de las Cape controlles de la litter de la Californe de la litter consideration de la litter de la	,				(73-11)
			7. C.		College	(Blank)
305					See a se	Maria Constantina
	Release lever		marane marane (glis in the content of the content o			
306	20	1		7	0	
	риничения повых з автом се ото именувантой в вставит высочнуют досто свою да техности статуры может с с своения выполняем в своения в своения в своения выполняем в своения в с				-	(Blank)
RECORDED PROPERTY.			wy prominent or an extending			* ************************************
307	податите и приняти приняти приняти на принят					
AND CONTRACTOR AND CO	Worm collar	References	Without and	TO CERCITO DE TRANSPORTE DE LA CONTRACTOR DE LA CONTRACTO	WUGDDDGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	and the state of t
308		1	·	6	0	
lancer and the second						

				20FA97 - R.1041.B			
Part No.	Name and Shape 名称 および 形 状	Pes. per Unit 1台分制数	Reference Subassembly No. 多照部組品番号		Term of Sale 販売区分	Remarks	
部品番号 20FA97-		1日万剛級	Prieder un et 7	**************************************	國元区分	1	
309	Silicon diode	2	B7, J1	6, 9	Δ		
310A	Wind-up ratchet washer	1	person van manuskus kantan kalala adin agama no mga l	4	0	0.2t	
310B	Wind-up ratchet washer B	1		4	0	0.1t	
310 C	Wind-up ratchet washer C	1		4	0	0.05t	
311	Slide lever long screw	1		8	0		
312	Long film switch stopper			8	0		
313	5P connector pin	4	A 7	2	Δ		
314	Worm shaft adjusting disk	1		6	0		
315 A						(Blank)	
315B	Roll pin - 3.3	1		4	0		
316A1	Lead wire (red) - 140	1	A 2	2	00		
316 A 2	Lead wire (red) - 170	1	F2	7	ΟΔ		
316Bl	Lead wire (blue) - 120	1	D5	. 3	0Δ		
316B2	Lead wire (blue) - 50	1	Jl	9	00		
316B3	Lead wire (blue) - 22		E4	10	0		

	от при	D	Reference	2OF Reference	A97 - R	1041.B Remarks
Part No.	Name and Shape	Pee. per Unit	Subassembly No.	Fig. No.	Sale	
部品量号	名 称 および 形 状	1台分侧数	多照都組品番号	多照図書	販売区分	偷 考
20FA97-	Lead wire	Pobellustrough		namen kanana		
316B4	(blue) - 200	general grand	A 2	2	00	
·	Lead wire		A2, 🥯			nedisidente respectivació est que que esta característica de la companya de la companya de la companya de la c
316Cl	(white) - 50	3	J1	2, 9	00	
uuusususus on tere aakeen kalkista killikkin killikkin killikkin killikkin killikkin killikkin killikkin killi	Lead wire		generations are a notate impairment as referred all initiates and deliver in the event interest and			оронный принципальный надарування ста в 1.1 годинальной завейнёй
316C2	(white) - 22	1	H4	10	ОД	
	Lead wire			nauponensolous sono		
31603	(white) - 200	1	A 2	2	00	oorey physylvuurus aannet kiela SJAAN ON
	Lead wire		Bootmassine & State	CALABORATOR TO CONT. THE CALABORATOR TO CONT.	The second secon	
316D1	(brown) - 160	1	D5	3	ОД	COLO BOLO DE SENTENCIA CANTRE NE PREMIO DE SENTENCIA CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE C
	Lead wire					
316D2	(brown) - 100	1	D5	3	00	ELLEGATTTT FIRST COOK FROM the SHELLEN A CONTROL SECTION OF THE
	Lead wire					
316D3	(brown) - 130	poor d	ALL DESCRIPTION OF THE PROPERTY OF THE PROPERT	3	0	
ago, personal e e consultar que en activa de constitución en	Lead wire		&			
316D4	(brown) - 90	- Pand	B7	3, 6	0	
y gygystagottagottagottagottagottagottagottago	Lead wire	TO STATE OF THE ST		was consequent to the consequence of the consequenc	La Company of the Com	
316E1	(yellow) - 160	- James	F2	7	00	
	Lead wire			ACT CLASSIC COLOR OF THE COLOR	PRODUMENT CONTRACTOR	
316 E 2	(yellow) - 130	7	D5	3	00	
egyppiaeurosaurosaben eta esta esta esta esta esta esta esta	Lead wire					
316E3	(yellow) - 50	1	J1	9	00	
hat managanahan yan dan da kalama tanan tanan da	Lead wire		ACTUAL CONTRACTOR OF THE PROPERTY OF THE PROPE			
316 E 4	(yellow) - 22	1	Н4	10	ОД	
	Lead wire					Commence of the Commence of th
316F1	(green) - 120	1	D5	3	ОД	
	Lead wire					ger varamente for find de find for the find of the fin
316F2	(green) - 50		Jl	9	ОД	antigetter vienten) vii dir kassi kaarasta kunstata en menden adale krisiin kaar
	Lead wire				No. of the contract of the con	-
316 F 3	(green) - 22	1	H4	10	00	SONGHAMOS SON

				20FA97 - R.1041.B			
Part No.	Name and Shape	Pcs. per Unit	Reference Subassembly No.	Reference Fig. No.	Term of Sale	Remarks	
部品番号	名称および形状	1台分侧数	多黑部組品各号	鲁图照鲁	販売区分	偏考	
20FA97-	Lead wire	DAGRAGISTA	THE PROPERTY OF THE PROPERTY O		A CONTRACTOR OF THE CONTRACTOR		
316Gl	(black) - 90	garage garages	D 5	3	ОД		
Comments of the Comments of th	Lead wire						
316G2	(black) - 60 -	1		3	0		
316J	Lead wire (grey)		D 5	3	0Δ		
to he didenterate a retain de la reconstruir septembre		Contraction of the state of the	атр жкіх забадне эті забаднявіся белі противного приваливального у шивальна				
an entered and a second and a s	Lead wire	ARTENIA COMPANIA					
316K	(orange)	. 1	F2	7			
	Stop pawl washer		garantagaran kanan ang ang ang ang ang ang ang ang ang			in to the service from the least to septimize the contract of	
317	0	1		7	0		
	Frame counter cam washer A						
318A	washer A	1		3, 4	0	0.05t	
-	Frame counter cam washer B			PERIO CLA GEORGIA INCIDIO ACCUSATO A INCIDIO DE		C description T. Cytische vit Emplehische displaymatische Anna Landouse, der verweiser	
318B	washer b	1		3, 4	0	0.1t	
318C	Frame counter cam	1		3, 4		0.2t	
				area area area area area area area area			
319	Stop pawl adjusting pin	1	F 5	7			
	5P connector pin				San	heist einzelten euszernen utzern zuwer erworken fester mehr werkle sehen billeten.	
320		1	A 7	2			
	5P connector nut		generaliset getat Adelings og saganhard i dat og synnak av hanner udgarherdinne.	o zakoski BUNITO i i Teknoloki kristoli Alabanismoski 500		ek-unggenerakan kecampun anak mengentaran kandi menak kemendan cendak di dasa	
321		1.	A 7	2	Δ		
	5P connector contact plate	general englighen en de le comment de le	demokratika daliyin akin masigin akinga dalamatik, masanan permenyen ada da dalamatek dalam		THE RESERVE AND A PROPERTY OF THE PROPERTY OF		
322	hrane	1	A 8	2	Δ		
	5P connector contact						
323	spring	1	A 9	. 2	Δ		
	5P switch pin				auto auto programa de la compansa de		
324		1		2	0		
- Extrapolation of the control of th	Switch bearing	- Section of the sect			by control to the con	-	
325		1	audictatoresti repai	. 4	0	And the recommendation of the comment of the commen	

Reference Term of Name and Shape Pes. per Remarks Part No. Reference Subassembly No. Fig. No. Unit Sale 名 稼 および 形 状 1台分個數 参照都組品番号 参照図書 販売区分 考 部品番号 20FA97-Steel ball 3, 4 $O\Delta$ 5,6 **(** 60 B1 326 0.8 Wind-up shaft collar 1 3 0 327 Ball bearing $\left(0\right)$ 2 - 5 - 1.5 2 3, 4 \bigcirc 328 Wind-up thrust washer A 0.05t 1 3 \bigcirc 329A Wind-up thrust washer B 0.3t 3 1 329B Wind-up thrust washer C \bigcirc 3 0.4t 1 329C Wind-up thrust washer D (0) \bigcirc 0.5t 1 3 329D C clip 4, 6 $O\Delta$ 1 Bl 330 Rewind coupling screw $O\Delta$ 5 1 B5 331 Taper pin $O\Delta$ 2 C2 7 332 TP 0.8 - 8 Qldham coupling shaft 5 1 B10 333 Rewind retainer 0 1 5 334 O/C safety screw 0 5 1 335 O/C safety spring g and 5 0 336 Equivalent O/C safety washer to 20FA30 #986 5 1 ()337 Rewind click spring \triangle A4 2, 5 338

Reference Term of Fig. No. Sale Pes. per Unit Name and Shape Remarks Part No. Reference Subassembly No. 名 蘇 および 形 状 1台分侧数 参照部組品番号 参照図書 販売区分 部品番号 20FA97-Rewind click pin \triangle 2 339 7 A4 Rewind click spring retainer 0 340 1 2 Click spring cover \bigcirc 341 1 1 Screw Equivalent to 20FD11 1.7R - 3 special #238 342 2 2 3rd shaft stopper \bigcirc C6 343 1 4 Equivalent 3rd shaft spring to 20FA30 holder #787 \bigcirc 1 4 344 Straight pin 6 \bigcirc SP 0.8 - 3.6 1 345 Taper pin $O\Delta$ 5 BlO 346 TP 1 - 8 1 Remote terminal cap \bigcirc 1 347 Trigger button cover Δ 1 10 348 Hl Set screw $O\Delta$ 1.70 - 3349 1 Hl 10, 2 2nd shaft clutch spring 0 1 350 4 2nd shaft clutch gear \bigcirc 1 4 351 Screw DIII 3 \bigcirc 1.49 - 34 352 2nd shaft clutch pawl C7 Δ 4 353 J

20FA97 - R.1041.B Part No. Name and Shape Pcs. per Reference Reference Term of Remarks Unit Subassembly No. Fig. No. Sale 部品番号 名称および形状 1台分侧徵 李熙部組品書号 参照図書 販売区分 考 20FA97-2nd shaft clutch rivet \triangle 354 1 C7 4 2nd shaft clutch bearing 355 1 C7 4 Δ 2nd shaft clutch ratchet \bigcirc 356 (Blank) 357 Equivalent Rewind coupling washer to 20FD11 #282 2 358 1 Δ O/C lever protector $O\Delta$ 7 A10 359 1 Transistor \triangle 9 2SC871F 7 360 Jl (Blank) 361 2nd shaft clutch washer 0 0 0.3t 362A 1 2nd shaft clutch washer 1 0.4t 362B 2nd shaft clutch washer 0.5t 1 362C A Vinyl tube 1 **D5** 3 363 3.6♥ Tape 1 364 D8 8 (Blank) 365 Palladium contact point \triangle E4 9 366

Pcs. per Unit Reference Subassembly No. Reference Term of Remarks Name and Shape Part No. Fig. No. Sale 考 名称および影状 1台分侧数 参照部組品書号 参照図番 販売区分 部品番号 20FA97-#625 metal contact 0 point Δ D6, D7 2 367 A E-shaped clip Δ 368 9 7 C3 E-13 Screw **Smirm** Δ 369 g-d 7 C3 A Guide plate liner او وا 0 2 370 1 ۵ Washer 0 1 371 A Rewind lock spring \bigcirc 2 1 372 A Rewind lock release socket 0 1 2 373 Rewind release button 0 1 2 374 A E-shaped ring \bigcirc 375 E-10 9 2 A Plate nut 0 1 2 376 A Washer 0 8 1 377 A VR nut 0 8 1 378 Speed selector spring holder 0 8 1 379 Speed selector lock spring 0 8 1 380 S-C lock spring an) O 10 1 381

Su	bassembly	y list	·	20FA97 - 3	R.104	1.B
	No. of Sub- assembly	Name	Pcs. per Unit	Constituent parts	Ref. Fig.	Remarks
	20FA97-	Remote control terminal	7	*197, 199x3, 200, 316A1	2	
	A2			31684, 31601, 31603		
	A4	Rewind click plate	2.	*338, 339	2	
	A 5	Rewind lever	1	112, 114	2	parantamatakka kalifusoka disebilika adalah
Body	A6	Rewind coupling lever	1	*115, 117	2	ant (op his land a him a de manera acceste) de l'Helle (1874).
ΔĀ	A7	Cordless terminal	I	*7, 313×4, 320, 321	2	province modulina del modulino del cidado de la cidado del cidado de la cidado del cidado de la
:	A8	5P connector contact plate	1	110, *322	.5	
	A9	5P connector contact spring	1	109, *323	2	worken kundern oo zu wordt bereind vor when is kill in die keep v
es e	A10	Top cover	1	*11, 206, 359	1	
	Bl	Wind-up shaft	1	14, *16, 273, 326×16, 330	4,6	atma naorani kalenno atministra vinsido Nele
	B4	O/C coupling	1	*143, 145, 150, 223, 254×2 276	5	
4	B5	Rewind shaft	1	*136, 137, 272, 331	5	
ate.	B7	Relay circuit	1	*159, 298, 309, 3001, 316D4	6	
e pla	B8	Release shaft lever A	1	67, *68	4	an control of the con
Base	B9	Large bevel	1	*20, 21x2, 23x2	4	
iri	BlO	Rewind oldham coupling shaft	1	*333, 346	5	
	B11	O/C lever	1	*131, 133, 134, 135, 135A	5	
	B12	Base plate	1	*3, 66, 141	4	grandi vinkandajin kilika kana kaman middalik
DANISH COMP	B13	Micro-motor	1	*13, 71, 123, 275×4	3	
	C2	3rd shaft	1	*56, 57, 58, 59, 60, 211 213, 272, 332×2	7	
	C3	Cam shaft	1	40, 41-1 (41), *42, 43-1 (43)	7	
	-			44, 45, 46, 47, 48,		
	PERMICENTAL	-		50x33, 51x32, 212, 241-1		
Cam	No.			(241), 368, 369		
O	C4	Cam shaft bracket A	1	*4, 24, 55, 61	4	
	C6	Cam shaft bracket B	1	* 5, 64, 343	4	Second Street Action (1995) And Street Action (1995)
	C 7	2nd shaft ratchet pawl	1	353, 354, *355	4	
	D1	Long film contact plate	1	*27, 29, 175×3	3	
	D3	Signal lever A	1	*36, 39	8	
plate	D4	Signal lever B	1	*30, 31	8	
	D5	Toggle switch	1	290, *301 , 316B1, 316D1	3	
iddle				316D2, 316E2, 316F1, 316G1 316J, 363A	SACRAGE CONSTRUCTION OF THE SACRAGE CONSTRUCTION	·
Mi	D6	Switch spring contact A	1	*34, \$ 367	3 .	
	D7	Switch spring contact B	en-entropy representations and the	*35, \$367	3	
	D8	Middle base plate	1	*6. 28. 364 A	8	

				20FA97 -	20FA97 - R.1041.B	
	No. of Sub- assembly	Name	Pcs. per Unit	Constituent Parts	Ref. Fig. No.	Remarks
Rewind shaft bracket	20FA97- E1	Friction		E3, 124, *126, 225	6	
	E3	Friction gear	l	*122, 125	6	
	E4	Rewind switch contact (1	*103, *** 366	6	
	E 5	Rewind switch contact A	1	*107, 110	6	
	E 6	Rewind switch contact B	1	*108, 110	6	
Counter	F1	Frame counter base plat	9 l	*75, 78, 79, 85, 247×2	7	
	F2	Counter switch contact	grand de la constant	*88, 89, 90×3, 316A2, 316E1	7	
	F4	Frame counter ratchet		74, *76, 83	7	

*81, 319 *80, 94

154×4, 155

168×2, *169

*8, 180 *8-1, 180-1

*10, 185, 186

*10-1, 185-1, 186

194, *195, 196, 219

1

1

1

1

1

1 | *158, 289×2, 291, 292, 293

165, *167, 176, 348, 349

170, 171, *172, 175×4, 297

*162, 177x4, 268x4, 316B3

316C2, 316E4, 316F3

294, 295, 300, 309, 360, 296 316B2, 316C1, 316E3, 316F2

9

10

10

10

10

10

8

F5

F6

Jl

J3

Hl

H2

H3

H4

Rl

R2

A R1-1

H5 H5-1

button

Stop pawl

Delay circuit

S-C terminal

S-C circuit

Socket

S-C cap

S-C cap

Back base plate

Back base plate

Safety button

Trigger button
Lock spring

Frame counter lever