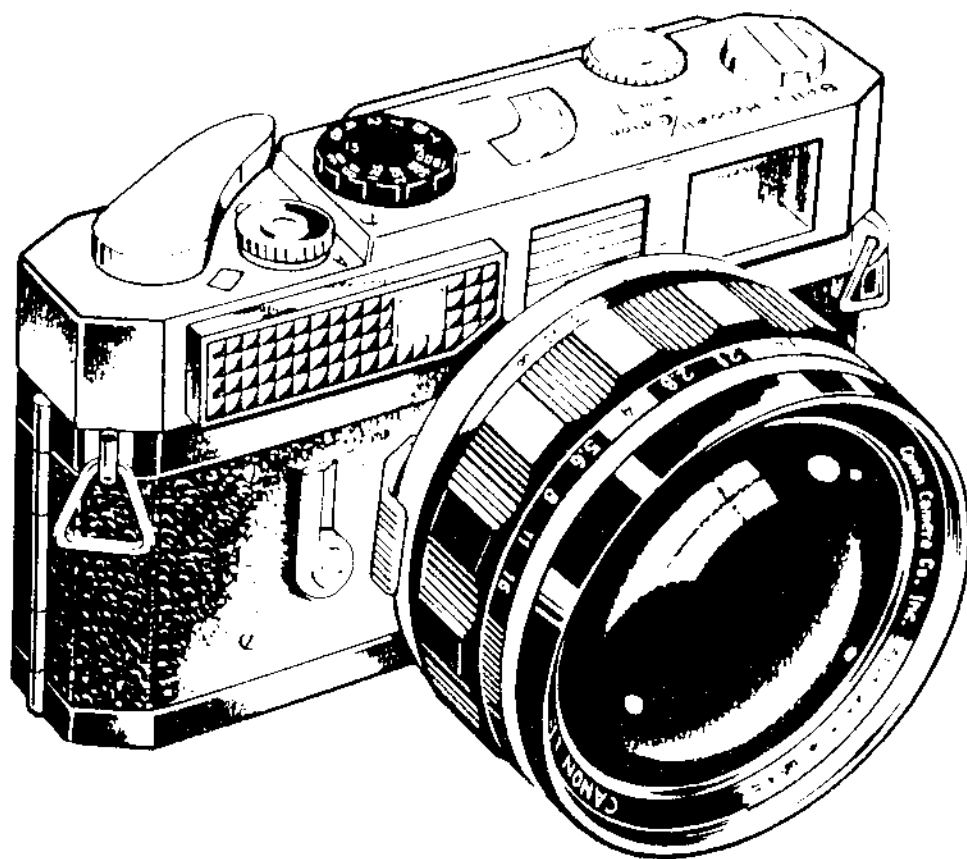


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7-S

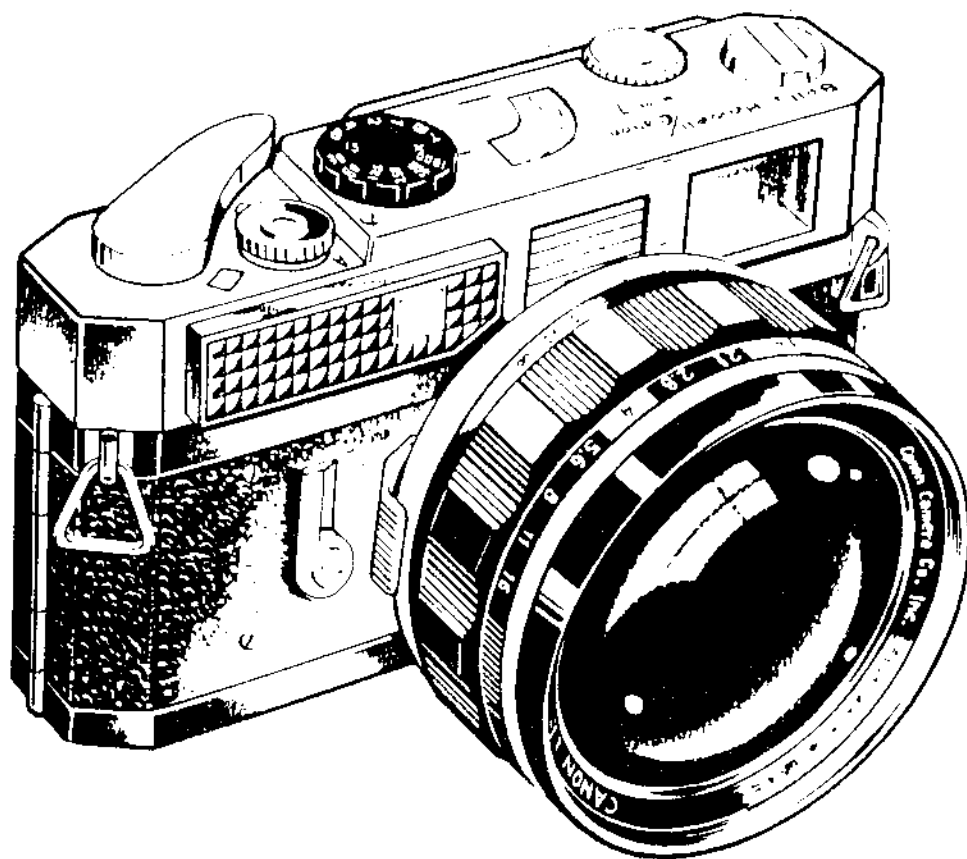
REPAIR MANUAL



Canon

7-S

REPAIR MANUAL



CANON REPAIR MANUAL

CANON 7S

(REFERENCE NO. 1-10611)

**CANON CAMERA COMPANY INC.
TOKYO, JAPAN**

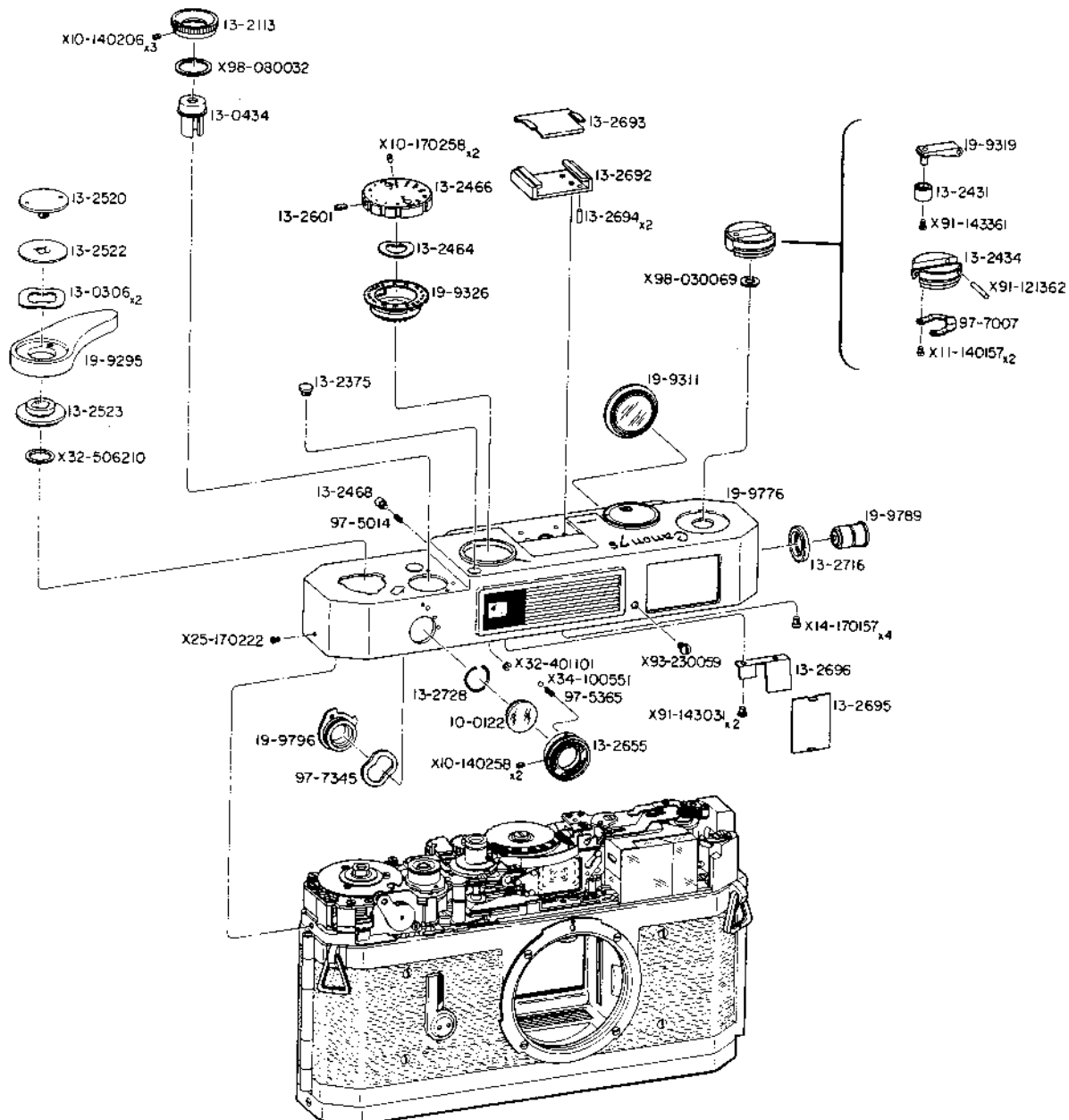
First Printing, April, 1965

CANON CAMERA CO., INC.

TABLE OF CONTENTS

WINDING LEVER SET	1
SHUTTER BUTTON	1
SHUTTER SPEED DIAL SET	1
REWIND CRANK SET	1
LIGHT-METER WINDW	1
TOP COVER	1
LIGHT METER	2
RANGE-VIEWFINDER	2
BASE PLATE SET	2
SELF-TIMER LEVER	3
FRONT & BACK COVER SET	3
LENS MOUNT SET	3
BACK COVER	4
FRONT COVER	5
SELF-TIMER SET	6
EXPOSURE COONTER	6
SHUTTER SPEED SELECTOR	6
REWIND CRANK SHAFT	6
BASE PLATE FOR WINDING MECHANISM	7
SHUTTER SPEED SELECTOR	7
RANGE-VIEWFINDER OPTICAL SYSTEM	8
SLOW SHUTTER GOVENOR SET	9
SELF-TIMER RELEASE MECHANISM	9
FLASH CIRCUIT CONTACT	9
EXPOSURE COUNTER	9
IDLE GEAR	9
SPROCKET	9
SHUTTER BUTTON	9
SHUTTER MECHANISM	9
SHUTTER MECHANISM	10
FLASH CONTACT	10
SHUTTER MECHANISM	11
SPROCKET	12
WINDING SHAFT & TAKE-UP SPOOL	12
SHUTTER MECHANISM	12
BODY	12

EXPLODED VIEW of CANON 7S



PARTS LIST

WINDING LEVER SET

13-0306	Spring Washer×2
13-2520	Pin Face Screw
13-2522	Washer
13-2523	Shaft of Winding Lever
19-9295	Winding Lever(B.P.)
X32-506210	Washer×N
X32-506211	

SHUTTER BUTTON

13-0434	Shutter Button
13-2113	Film Rewind Ring
X10-140206	Screw×3
X98-080032	Washer

SHUTTER SPEED DIAL SET

13-2464	Spring Washer
13-2466	Shutter Dial
13-2601	Screw
19-9326	Film Speed Dial(B.P.)
X10-170258	Screw×2

REWIND CRANK SET

13-2431	Rewind Knob
13-2434	Rewind Knuckle
19-9319	Rewind Crank(B.P.)
97-7007	Spring
X11-140157	Screw×2
X91-121362	Screw
X91-143361	Screw
X98-030069	Washer

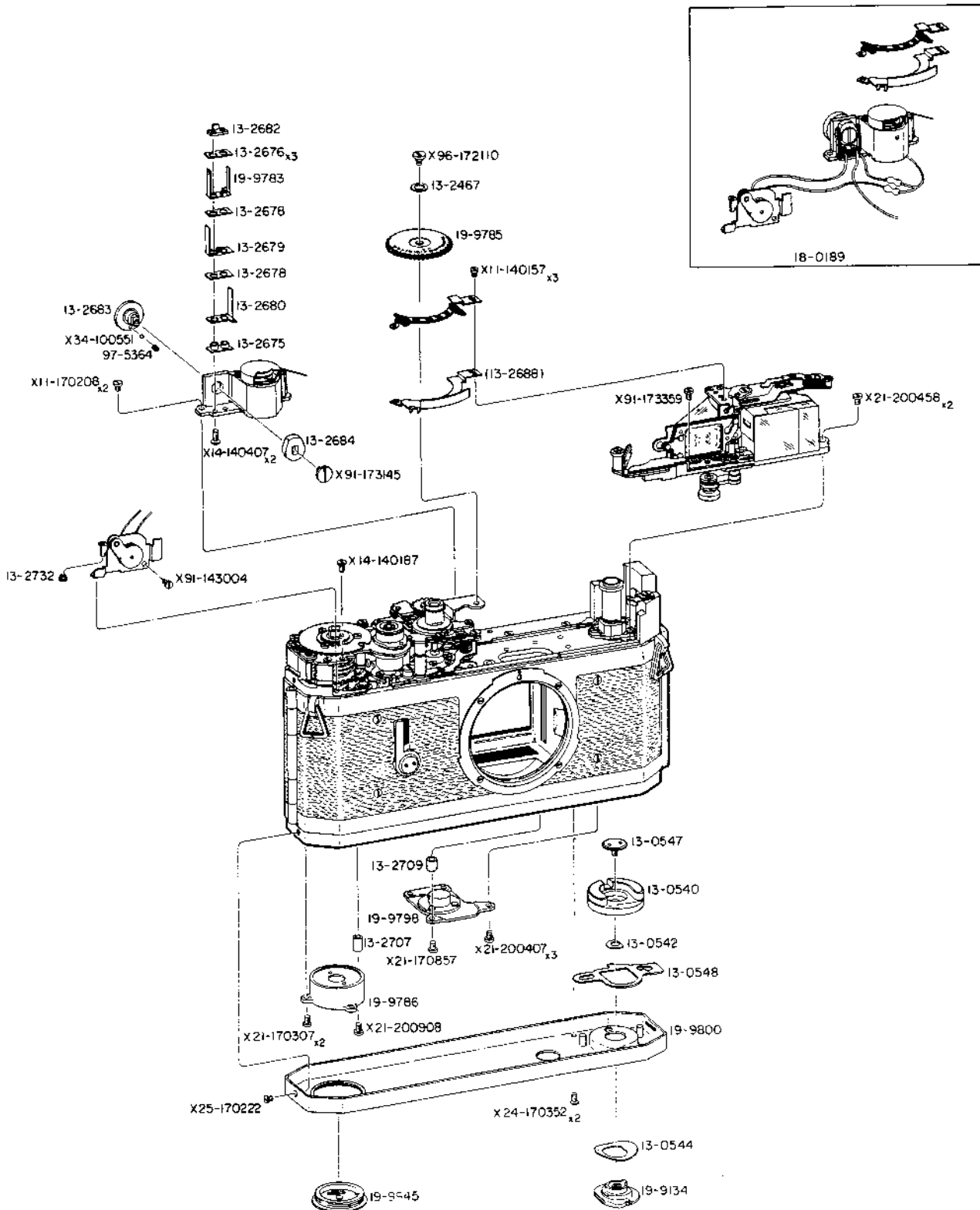
LIGHT-METER WINDOW

10-0122	Fresnel Lens
13-2655	Light Meter Sensitivity Shifting Ring
13-2728	Assemble Spring
19-9796	Stopper Cam(B.P.)
97-5365	Coil Spring
97-7345	Spring Washer
X10-140258	ScREW×2
X34-100551	Steel Ball

TOP COVER

13-2375	Pin Face Screw
13-2468	Film Speed Indicator Button
13-2692	Accessory Shoe
13-2693	Plate Spring
13-2694	Pin×2
13-2695	Light Shield
13-2696	Holder Plate
13-2716	Flash Terminal Collar
19-9311(0)	Eyepiece(B.P.)
19-9311(+1.5)	Such numbers as(0)
19-9311(-1)	(+1.5)(-1) and (-2.5) show
19-9311(-2.5)	the diopter of the eyepiece
19-9776	Top Cover(B.P.)
19-9789	Flash Terminal(B.P.)
X14-170157	Screw×4
X25-170221	Screw
X32-401101	Retaining Washer
X91-143031	Screw×2
X93-230059	Screw

EXPLODED VIEW of CANON 7S



PARTS LIST

LIGHT METER

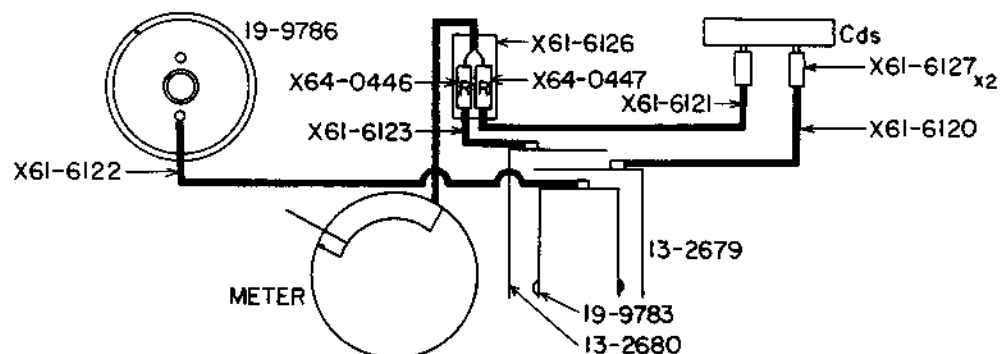
13-2467	Spring Washer
13-2732	Nut
18-0189	Light Meter(Unit)
13-2675	Insulator
13-2676	Insulator×3
13-2677	Contact
13-2678	Insulator×2
13-2679	Contact
13-2680	Contact
13-2682	Contact Holder
13-2683	Switch Ring
13-2684	Switch Cam
13-2688	Light Shield
97-5364	Coil Spring
X14-140407	Screw×2
X34-100551	Steel Ball
X91-173145	Screw
X98-040371	Washer
19-9785	Light Meter Dial(B.P.)
X11-140157	Screw×3
X11-170208	Screw×2
X14-140187	Screw
X91-143004	Screw
X96-172110	Screw

RANGE-VIEWFINDER (cf.p.8)

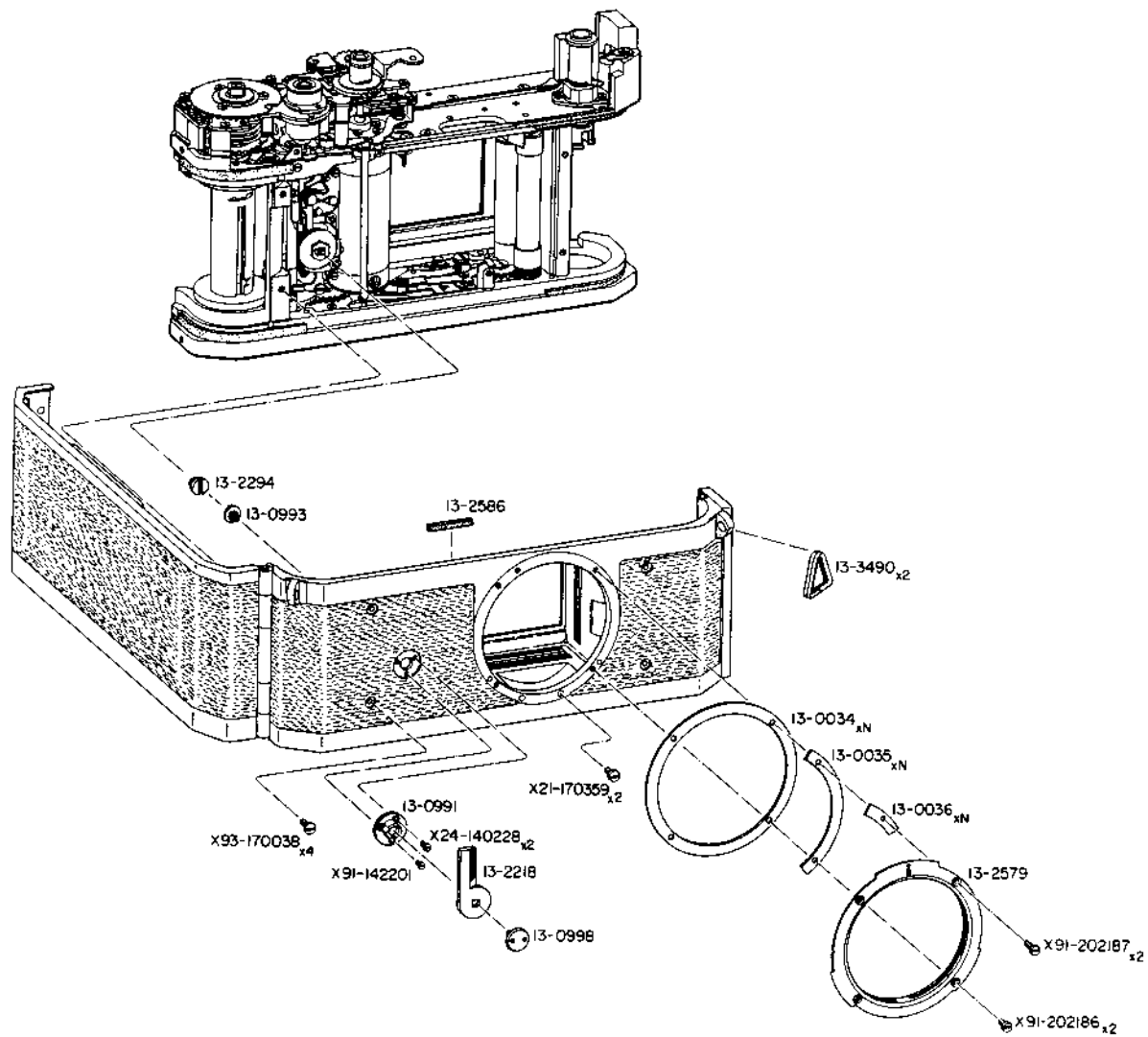
X21-200458	Screw×2
X91-173359	Screw

BASE PLATE SET

13-0540	Magazine Opening Disk
13-0542	Washer
13-0544	Spring Washer
13-0547	Pin Face Screw
13-0548	Safety Plate
13-2707	Collar
13-2709	Collar
19-9134	Magazine Opening Key (B.P.)
19-9786	Battery Case(B.P.)
19-9798	Tripod Socket(B.P.)
19-9800	Base Plate(B.P.)
19-9945	Battery Cover
X21-170307	Screw×2
X21-170857	Screw
X21-200407	Screw×3
X21-200908	Screw
X24-170352	Screw×2
X25-170222	Screw



EXPLODED VIEW
of
CANON 7S



PARTS LIST

SELF-TIMER LEVER

13-0991	Bearing
13-0993	Coupling Joint
13-0998	Pin Face Screw
13-2218	Self-Timer Lever
13-2294	Coupling Joint
X24-140228	Screw×2
X91-142201	Screw

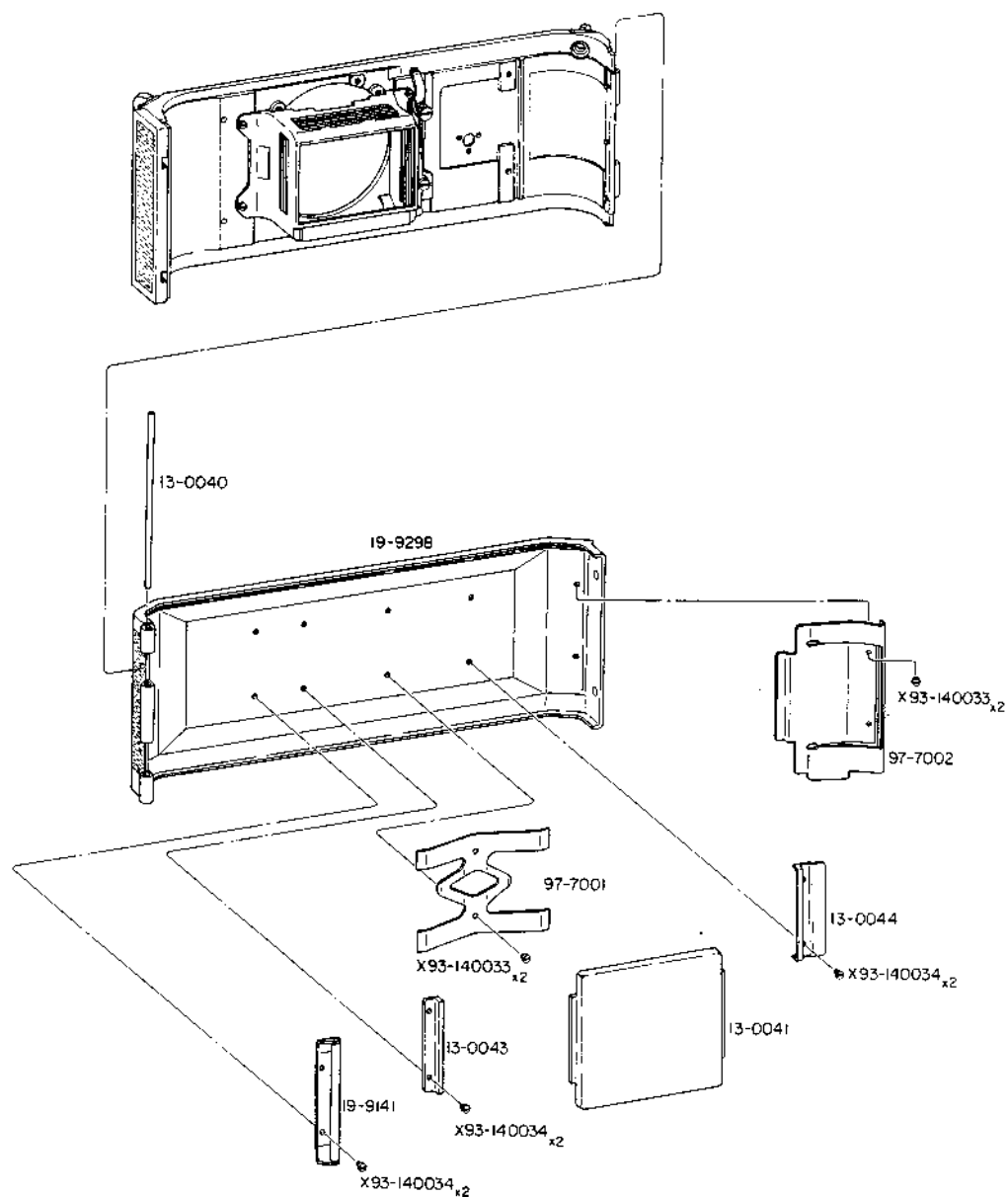
FRONT & BACK COVER SET (cf.p.4,p.5)

13-2586	Light Shield
13-3490	Neck Strap Adapter×2
X21-170359	Screw×2
X93-170038	Screw×4

LENS MOUNT SET

13-0034(0.1)	Adjusting Washer×N Such numbers as(0.1) (0.07)and(0.05)indicate the thickness of Adjust- ing Washers(Unit : mm)
13-0034(0.07)	
13-0034(0.05)	
13-0034(0.03)	
13-0035(0.1)	Adjusting Washer×N Such numbers as(0.1) (0.07)and(0.05)indicate the thickness of Adjust- ing Washers(Unit : mm)
13-0035(0.07)	
13-0035(0.05)	
13-0035(0.03)	
13-0036(0.1)	Adjusting Washer×N Such numbers as(0.1) (0.07)and(0.05)indicate the thickness of Adjust- ing Washers(Unit : mm)
13-0036(0.07)	
13-0036(0.05)	
13-0036(0.03)	
13-2579	Lens Mounting Frange
X91-202186	Screw×2
X91-202187	Screw×2

EXPLODED VIEW
of
CANON 7S

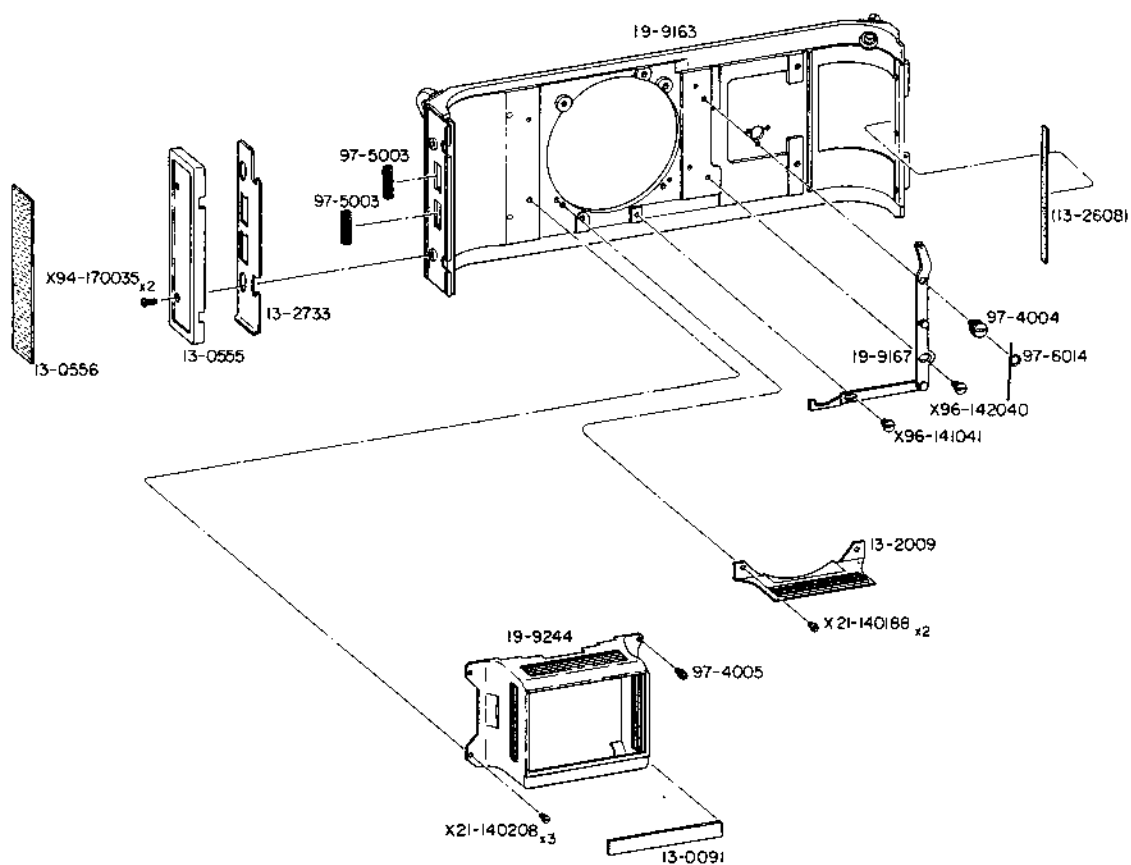


PARTS LIST

BACK COVER

13-0040	Shaft of Hinge
13-0041	Pressure Plate
13-0043	Pressure Plate Holder
13-0044	Pressure Plate Holder
19-9141	Film Guide Rollar(B.P.)
19-9298	Back Cover(B.P.)
97-7001	Spring of Pressure Plate
97-7002	Cassette Holder
X93-140033	Screw×4
X93-140034	Screw×6

EXPLODED VIEW
of
CANON 7S

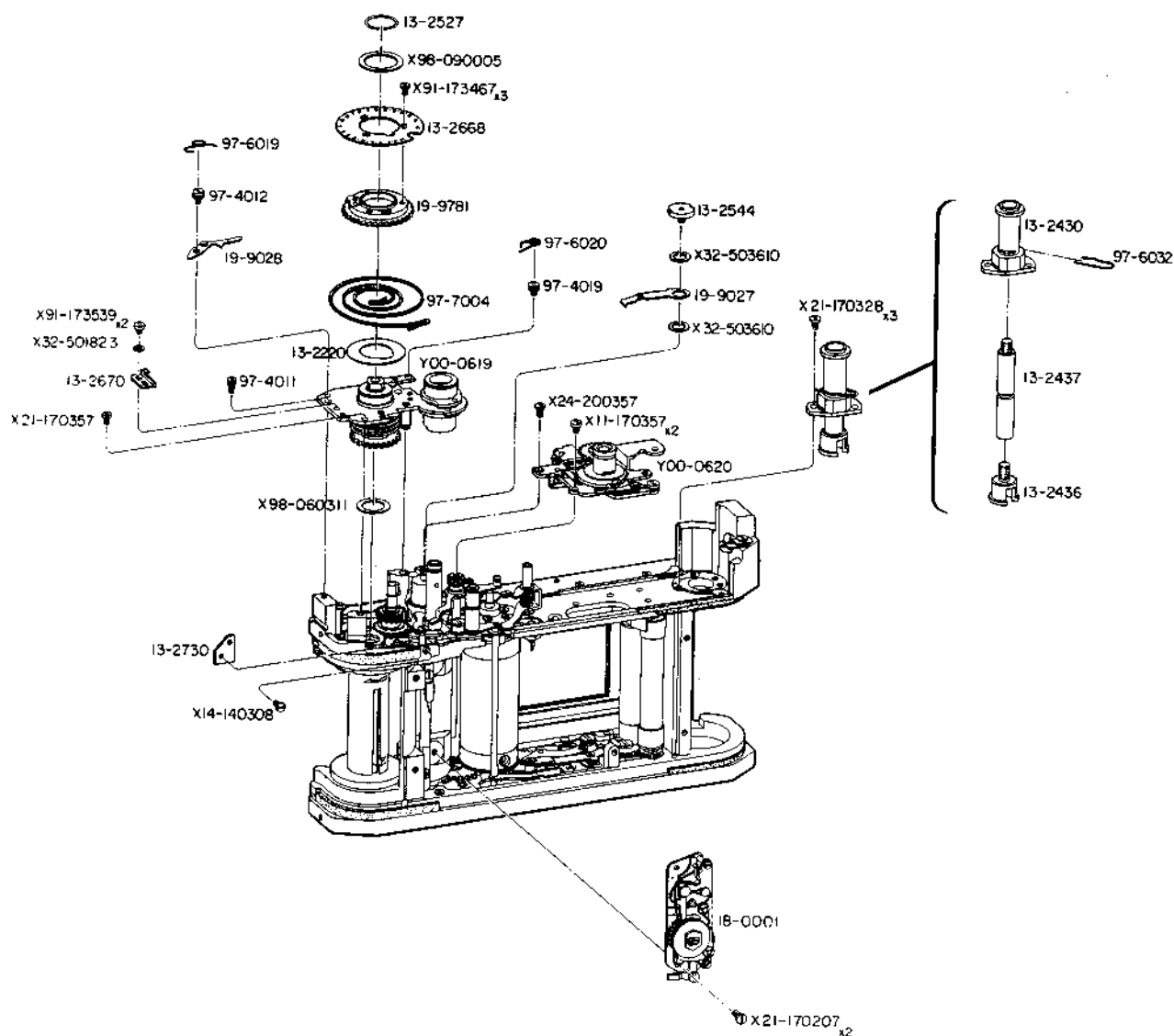


PARTS LIST

FRONT COVER

13-0091	Light Shield
13-0555	Cover Plate
13-0556	Leather
13-2009	Light Shield
13-2608	Light Shield
13-2733	Lock of Back Cover
19-9163	Front Cover(B.P.)
19-9167	Slow Speed Selecting Link(B.P.)
19-9244	Light Shield(B.P.)
97-4004	Shaft Screw
97-4005	Screw
97-5003	Coil Spring×2
97-6014	Spring
X21-140188	Screw×2
X21-140208	Screw×3
X94-170035	Screw×2
X96-141041	Screw
X96-142040	Screw

EXPLODED VIEW of CANON 7S



PARTS LIST

SELF-TIMER SET

18-0001 Self-Timer(Unit)
X21-170207 Screw×2

EXPOSURE COUNTER (cf.p.7)

Y00-0619 Base Plate for Winding
Mechanism(Unit)
13-2220 Washer
13-2527 Retainer
13-2544 Film Transport Indicator
13-2668 Exposure Counter Dial
13-2670 Stopper
19-9027 Feeding Claw(B.P.)
19-9028 Stopper Claw(B.P.)
19-9781 Ratchet Gear(B.P.)
97-4011 Screw
97-4012 Screw
97-4019 Screw
97-7004 Spring
X21-170357 Screw×2
X32-501823 Washer
X91-173467 Screw×3
X91-173539 Screw×2
X98-060311 Washer
X98-090005 Washer
X98-090006

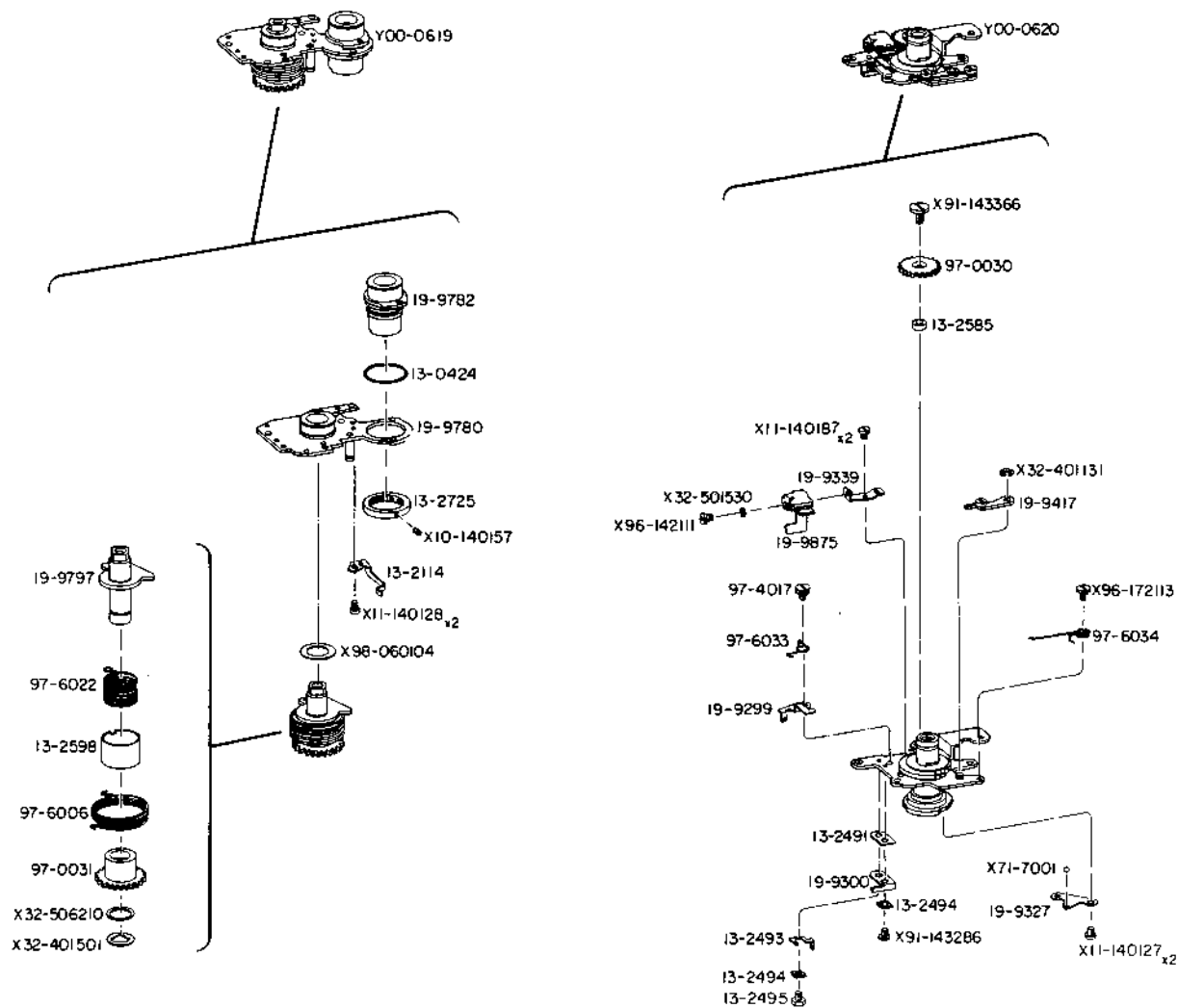
SHUTTER SPEED SELECTOR (cf.p.7)

Y00-0620 Shutter Speed Selector
(Unit)
13-2730 Light Meter Holder
X11-140358 Screw
X11-170357 Screw×2
X24-200357 Screw

REWIND CRANK SHAFT

13-2430 Bearing for Rewind Shaft
13-2436 Rewind Fork
13-2437 Rewind Shaft
97-6032 Spring
X21-170328 Screw×3

EXPLODED VIEW of CANON 7S



PARTS LIST

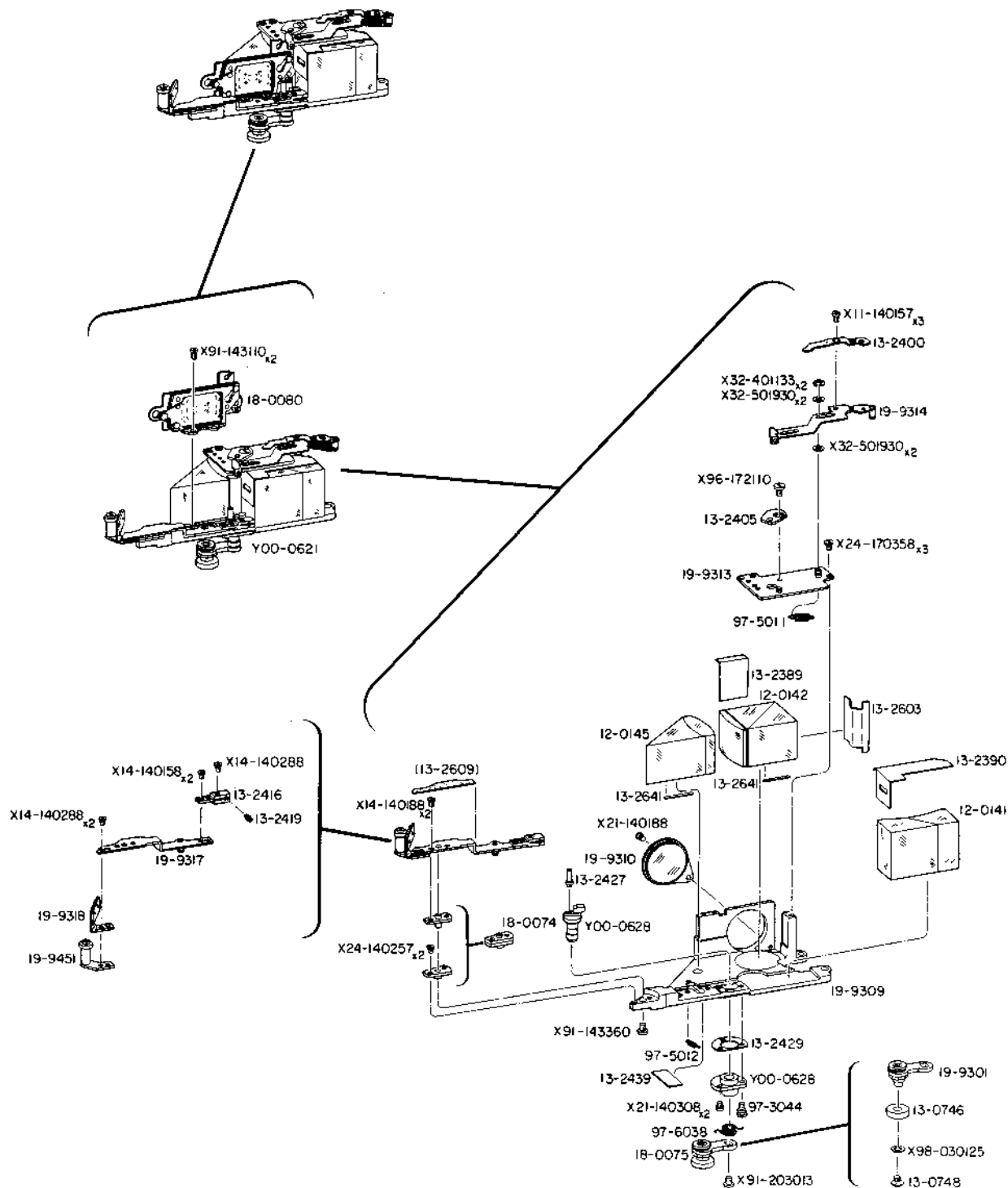
BASE PLATE FOR WINDING MECHANISM

		97-4017	Screw
Y00-0619	Base Plate for Winding	97-6033	Spring
	Mechanism(unit)	97-6034	Spring
13-0424	Spring Washer	X11-140127	Screw×2
13-2114	Click Plate	X11-140187	Screw×2
13-2598	Spring Cover	X32-401131	Retaining Washer
13-2725	Nut	X32-501530	Washer
19-9780	Winding Selector(B.P.)	X71-7001	Steel Ball
19-9782	Film Rewind Tube(B.P.)	X91-143286	Screw
19-9797	Winding Device Shaft	X91-143366	Screw
	(B.P.)	X96-142111	Screw
97-0031	Winding Gear	X96-172113	Screw
97-6006	Coil Spring		
97-6022	Coil Spring		
X10-140157	Screw		
X11-140128	Screw×2		
X32-401501	Retaining Washer		
X32-506210	Washer		
X32-506211			
X32-506212			
X32-506213			
X98-060104	Washer		
X98-060105			
X98-060106			

SHUTTER SPEED SELECTOR

Y00-0620	Shutter Speed Selector
	(Unit)
13-2491	Insulator
13-2493	Contact
13-2494	Insulator×2
13-2495	Screw
13-2585	Collar
19-9299	Contact(B.P.)
19-9300	Contact(B.P.)
19-9327	Click Spring(B.P.)
19-9339	Clutch Lever Holder
	(B.P.)
19-9417	Slow Speed Selecting
	Lever(B.P.)
19-9875	Clutch Lever(B.P.)
97-0030	Gear

EXPLODED VIEW of CANON 7S

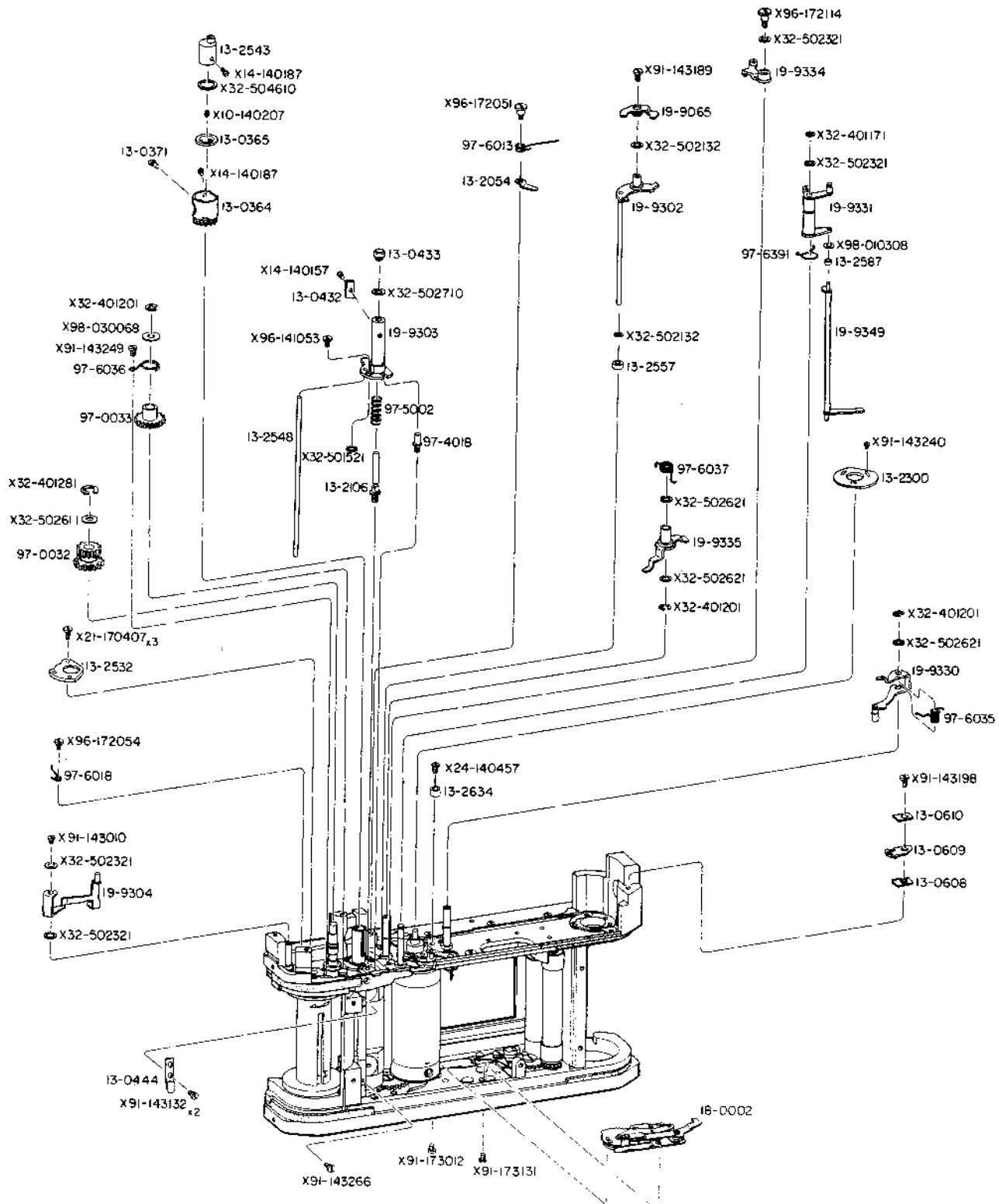


PARTS LIST

RANGE-VIEWFINDER OPTICAL SYSTEM

		97-6038	Coil Spring
18-0080	Finder Compensator (Unit)	X11-140157	Screw×3
		X14-140158	Screw×2
X91-143110	Screw×2	X14-140188	Screw×2
Y00-0621	Range-Viewfinder Optical System(Unit)	X14-140288	Screw×3
		X21-140188	Screw
Y00-0628	Range-Viewfinder Cam and Bearing(Unit)	X21-140308	Screw
		X24-140257	Screw×2
12-0141	Prism(B.P.)	X24-170358	Screw×3
12-0142	Prism(B.P.)	X32-401133	Retaining Washer×2
12-0145	Prism(B.P.)	X32-501930	Washer×4
13-2389	Light Shield	X32-501931	
13-2390	Light Shield	X32-501932	
13-2400	Guide Lever	X32-501933	
13-2405	Viewfinder selecting Cam	X91-143110	Screw×2
13-2416	Nut	X91-143360	Screw
13-2419	Screw	X91-203013	Screw
13-2427	Screw	X96-172110	Screw
13-2429	Washer		
13-2439	Light Shield		
13-2603	Light Shield		
13-2641	Spacer×2		
18-0074	Bearing(Unit)		
18-0075	Focusing Rollar(Unit)		
13-0746	Rollar		
13-0748	Screw		
19-9301	Focusing Rollar Lever (B.P.)		
X98-030125	Washer		
19-9309	Range-Finder Plate(B.P.)		
19-9310	Eyepiece(B.P.)		
19-9313	Top Cover for Range-View- finder(B.P.)		
19-9314	Guide Arm(B.P.)		
19-9317	Lever for Range-View- finder		
13-2609	Leather		
19-9318	Mirror(B.P.)		
19-9451	Mirror Holder(B.P.)		
97-3044	Screw		
97-5011	Coil Spring		
97-5012	Coil Spring		

EXPLODED VIEW of CANON 7S



PARTS LIST

SLOW SHUTTER GOVERNOR SET

18-0002 Slow Shutter Governor
(Unit)
X91-173012 Screw
X91-173131 Screw

SELF-TIMER RELEASE MECHANISM

13-0444 Self Timer Starting
Knock
X91-143132 Screw×2
X91-143266 Screw
X91-143267
X91-143268

FLASH CIRCUIT CONTACT

13-0608 Insulator
13-0609 Contact
13-0610 Insulator
X91-143198 Screw

EXPOSURE COUNTER (cf.p.6,p.7)

19-9304 Resetting Lever(B.P.)
97-6018 Spring
X32-502321 Washer
X32-502322
X91-143010 Screw
X96-172054 Screw

IDLE GEAR

13-2532 Bearing
97-0032 Idle Gear
97-0033 Idle Gear
97-6036 Coil Spring
X21-170407 Screw×3
X32-401201 Retaining Washer
X32-401281 Retaining Washer
X32-502611 Washer
X32-502612
X91-143249 Screw
X98-030068 Washer
X98-030069

SPROCKET (cf.p.12)

13-0364 Sprocket Drive Gear
13-0365 Clutch
13-0371 Pin
13-2543 Sprocket Cap
X10-140207 Screw
X14-140187 Screw×2
X32-504610 Washer
X32-504611
X32-504612

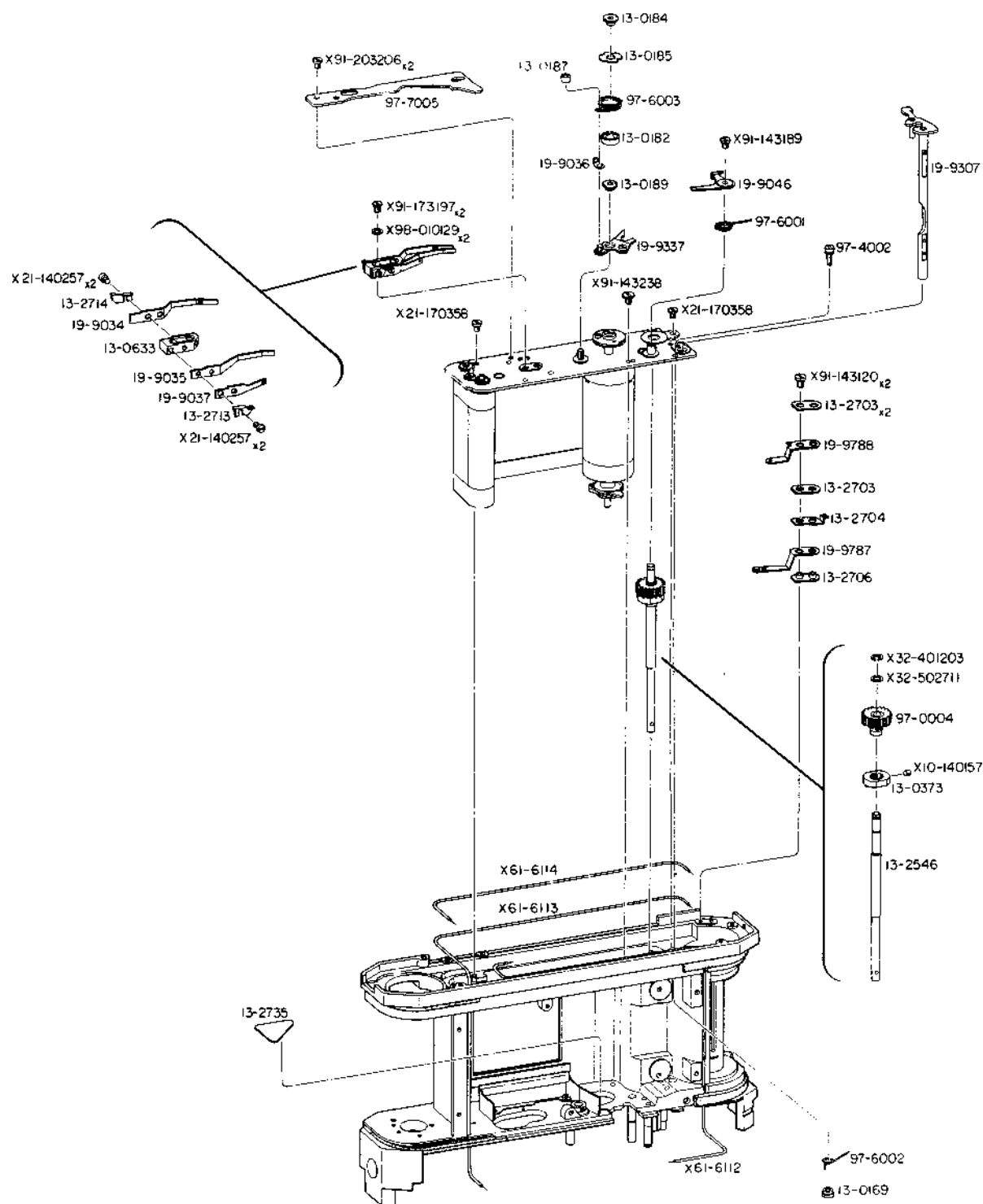
SHUTTER BUTTON (cf.p.1)

13-0432 Key
13-0433 Pin Face Screw
13-2106 Guide
13-2548 Winding Release Shaft
19-9303 Bearing for Shutter
Button Shaft(B.P.)
97-4018 Guide
97-5002 Coil Spring
X14-140157 Screw
X32-501520 Washer
X32-501521
X32-501522
X32-502710 Washer
X32-502711
X32-502712

SHUTTER MECHANISM (cf.p.10,p.11)

13-2054 Cap
13-2300 Cam for High Speed
13-2557 Collar
13-2587 Collar
13-2634 Cam Stopper
19-9065 2nd Curtain Clamp Cam
(B.P.)
19-9302 2nd Curtain Clamp Lever
(B.P.)
19-9330 Slow Speed Selecting
Lever(B.P.)
19-9331 Slow Speed Selecting
Lever(B.P.)
19-9334 Adjusting Lever(B.P.)
19-9335 Time Lever(B.P.)
19-9349 Slow Speed Selecting
Shaft(B.P.)
97-6013 Spring
97-6035 Coil Spring
97-6037 Spring
97-6391 Spring
X24-140457 Screw
X32-401171 Retaining Washer
X32-401201 Retaining Washer×2
X32-502130 Washer×2
X32-502131
X32-502132
X32-502321 Washer
X32-502322
X32-502621 Washer×3
X32-502622
X91-143189 Screw
X91-143240 Screw
X96-172051 Screw
X96-172114 Screw
X98-010308 Washer

EXPLODED VIEW of CANON 7S



PARTS LIST

SHUTTER MECHANISM (cf.p.11)

		19-9787	Contact(B.P.)
13-0169	Nut	19-9788	Contact(B.P.)
13-0182	Collar	X21-140257	Screw×4
13-0184	Nut	X61-6112	Lead Wire(230mm)
13-0185	Spring Washer	X61-6113	Lead Wire(225mm)
13-0187	Nut	X61-6114	Lead Wire(112mm)
13-0189	Nut	X91-143120	Screw×2
13-0373	Clutch	X91-173197	Screw×2
13-2735	Light Shield	X98-010129	Screw×2
19-9036	X Contact(B.P.)		
19-9046	Shutter Release Lever (B.P.)		
19-9307	Shutter Release Shaft (B.P.)		
19-9337	Brake Lever for 1st Curtain(B.P.)		
97-0004	Gear		
97-4002	Screw		
97-6001	Spring		
97-6002	Nut		
97-6003	Coil Spring		
97-7005	Shutter Release Plate		
X10-140157	Screw		
X21-170358	Screw×2		
X32-401203	Retaining Washer		
X32-502711	Washer		
X32-502712			
X32-502715			
X91-143189	Screw		
X91-143238	Screw		
X91-203206	Screw×2		

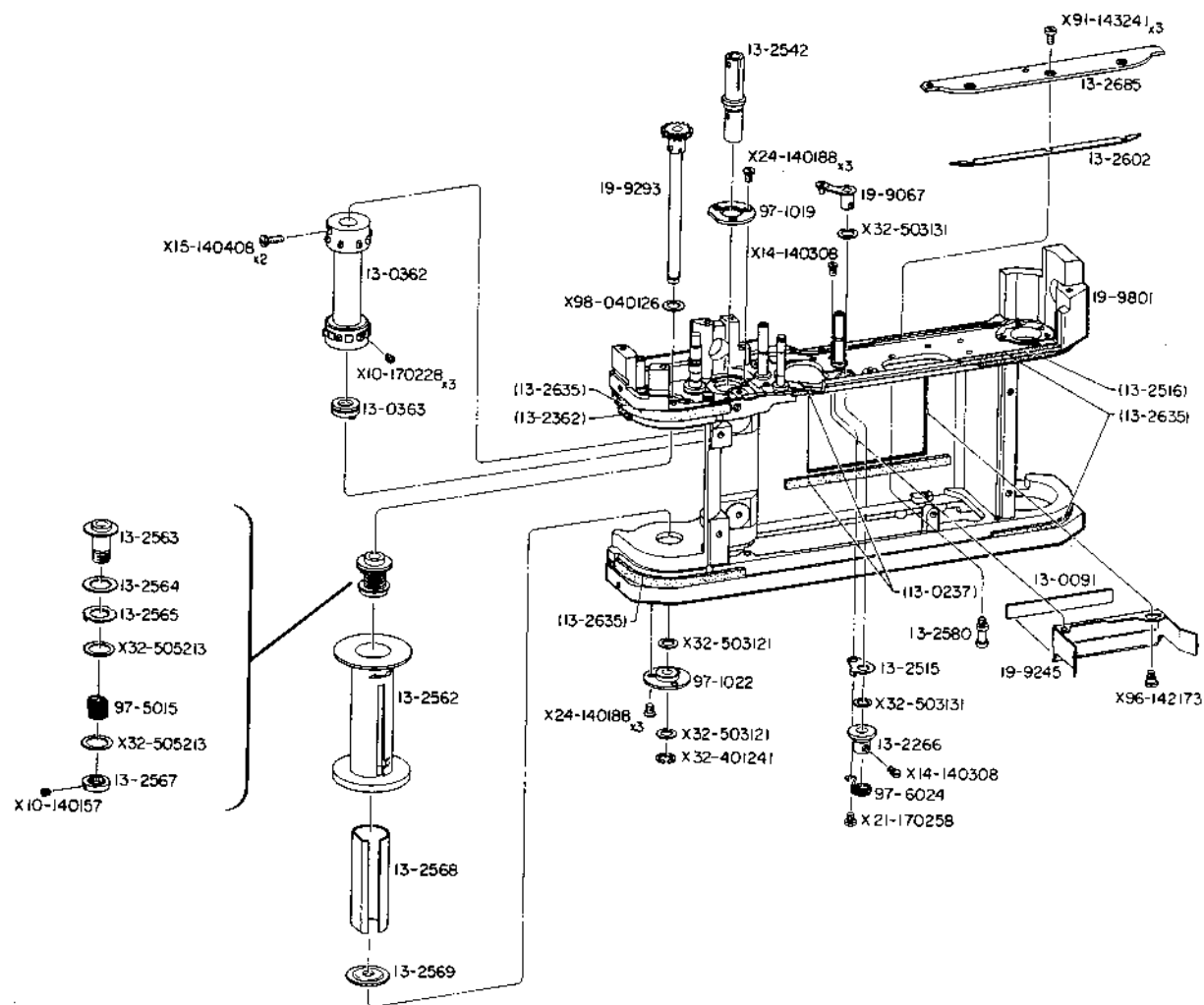
FLASH CONTACT

13-0633	Insulator Base
13-2703	Insulator
13-2704	Contact
13-2706	Insulator
13-2713	Lug
13-2714	Lug
19-9034	Flash Contact(B.P.)
19-9035	Flash Contact(B.P.)
19-9037	X Contact(B.P.)

PARTS LIST

SHUTTER MECHANISM (cf.p.10)		19-9186	2nd Metal Curtain (B.P.)
Y00-0315	1st Curtain Shaft (Unit)	19-9680	Base Plate for Shutter Drum(B.P.)
13-2589	Rollar of 1st Curtain	97-6015	Spring
13-2590	Nut	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> X32-503110 X32-503111 X32-503112 X32-503113 </div>	Washer
13-3587	Collar		
19-9341	1st Curtain Spring (B.P.)		
19-9343	1st Curtain Shaft (B.P.)		
X32-401132	Retaining Washer	X91-121196	Screw
X32-501911	Washer	X93-170027	Screw
X32-501912	Washer	X96-172037	Screw
Y00-0316	2nd Curtain Shaft (Unit)		
13-2593	2nd Curtain Shaft		
13-3588	Nut		
19-9342	2nd Curtain Spring (B.P.)		
97-0035	Anchor Release Gear		
X32-401132	Retaining Washer		
X32-501912	Washer		
13-0123	Screw		
13-0211	Nut×2		
13-0630	Collar		
13-3301	Clow×2		
18-0092	Shutter Drum(Unit)		
19-9042	2nd Curtain Brake Gear (B.P.)		
19-9043	2nd Curtain Brake Lever (B.P.)		
19-9044	Shutter Release Safty Lever(B.P.)		
19-9047	Shutter Release Claw (B.P.)		
13-0120	Shutter Release Ring		
13-0121	Shutter Release Claw		
97-2006	Pin		
19-9136	Idle Gear(B.P.)		
19-9185	1st Metal Curtain (B.P.)		

EXPLODED VIEW of CANON 7S



PARTS LIST

SPROCKET (cf.p.9)

13-0362	Sprocket
13-0363	Clutch
13-2542	Sprocket Shaft
97-1019	Bearing
X10-170228	Screw×3
X15-140408	Screw×2
X24-140188	Screw×3

BODY

13-2580	Stopper
13-2602	Washer
13-2685	Base Plate
19-9245	Light Shield
13-0091	Light Shield
19-9801	Body(B.P.)
13-0237	Light Shield
13-2362	Light Shield
13-2516	Light Shield×4
13-2635	Light Shield
X14-140308	Screw
X91-143241	Screw×3
X96-142173	Screw

WINDING SHAFT & TAKE-UP SPOOL

13-2562	Take-Up Spool
13-2563	Friction Shaft
13-2564	Washer
13-2565	Joint
13-2567	Nut
13-2568	Spring Plate
13-2569	Bearing
19-9293	Take-Up Spool Shaft (B.P.)
97-1022	Bearing
97-5015	Coil Spring
X10-140157	Screw
X24-140188	Screw×3
X32-401241	Retaining Washer
X32-503121	Washer
X32-503122	Washer
X32-505213	Washer×2
X98-040126	Washer
X98-040127	Washer

SHUTTER MECHANISM

13-2266	Collar
13-2515	Washer
19-9067	Brake Lever for 2nd Curtain(B.P.)
97-6024	Coil Spring
X21-170258	Screw
X32-503131	Washer
X32-503132	Washer

INDEX OF PARTS NUMBER

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
Y00-0315	11	13-0540	2	13-2439	8	13-2634	9
Y00-0316	11	13-0542	2	13-2464	1	13-2635	12
Y00-0619	6,7	13-0544	2	13-2466	1	13-2641	8
Y00-0620	6,7	13-0547	2	13-2467	2	13-2655	1
Y00-0621	8	13-0548	2	13-2468	1	13-2668	6
Y00-0628	8	13-0555	5	13-2491	7	13-2670	6
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12-0141	8	13-0610	9	13-2515	12	13-2678	2
12-0142	8	13-0630	11	13-2516	12	13-2679	2
12-0145	8	13-0633	10	13-2520	1	13-2680	2
		13-0746	8	13-2522	1	13-2682	2
13-0034	3	13-0748	8	13-2523	1	13-2683	2
13-0035	3	13-0991	3	13-2527	6	13-2684	2
13-0036	3	13-0993	3	13-2532	9	13-2685	12
13-0040	4	13-0998	3	13-2542	12	13-2688	2
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13-0123	11	13-2220	6	13-2563	12	13-2704	10
13-0169	10	13-2266	12	13-2564	12	13-2706	10
13-0182	10	13-2290	4	13-2565	12	13-2707	2
13-0184	10	13-2291	4	13-2567	12	13-2709	2
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13-0237	12	13-2389	8	13-2585	7	13-2728	1
13-0306	1	13-2390	8	13-2586	3	13-2730	6
13-0362	12	13-2400	8	13-2587	9	13-2732	2
13-0363	12	13-2405	8	13-2589	11	13-2733	5
13-0364	9	13-2416	8	13-2590	11	13-2735	10
13-0365	9	13-2419	8	13-2593	11	13-3301	11
13-0371	9	13-2427	8	13-2598	7	13-3490	3
13-0373	10	13-2429	8	13-2601	1	13-3587	11
13-0424	7	13-2430	6	13-2602	12	13-3588	11
13-0432	9	13-2431	1	13-2603	8		
13-0433	9	13-2434	1	13-2608	5	18-0001	6
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13-0444	9	13-2437	6	13-2630	8	18-0074	8

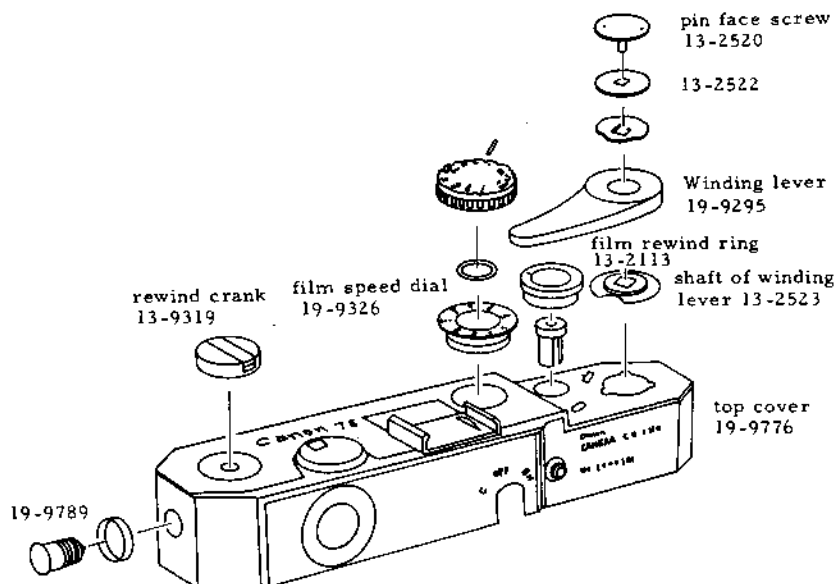
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18-0092	11	19-9327	7	97-4005	5	X10-140258	1
18-0189	2	19-9330	9	97-4011	6	X10-170228	12
		19-9331	9	97-4012	6		
19-9027	6	19-9334	9	97-4017	7	X11-140127	7
19-9028	6	19-9335	9	97-4018	9	X11-140128	7
19-9034	10	19-9337	10	97-4019	6	X11-140157	1,8
19-9035	10	19-9339	7	97-5002	9	X11-140187	7
19-9036	10	19-9341	11	97-5003	5	X11-170208	2
19-9037	10	19-9342	11	97-5011	8	X11-170357	6
19-9042	11	19-9343	11	97-5012	8		
19-9043	11	19-9349	9	97-5014	1	X14-140157	9
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19-9047	11	19-9680	11	97-5365	1	X14-140188	8
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19-9067	12	19-9780	7	97-6002	10	X14-140308	12
19-9134	2	19-9781	6	97-6003	10	X14-140407	2
19-9136	11	19-9782	7	97-6006	7	X14-170157	1
19-9141	4	19-9785	2	97-6013	9		
19-9163	5	19-9786	2	97-6014	5	X15-140188	12
19-9167	5	19-9787	10	97-6015	11		
19-9185	11	19-9788	10	97-6018	9	X21-140188	5,8
19-9186	11	19-9789	1	97-6019	6	X21-140208	5
19-9244	5	19-9796	1	97-6020	6	X21-140257	10
19-9245	12	19-9797	7	97-6022	7	X21-140308	8
19-9293	12	19-9798	2	97-6024	12	X21-170207	6
19-9295	1	19-9800	2	97-6032	6	X21-170258	12
19-9298	4	19-9801	12	97-6033	7	X21-170307	2
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19-9300	7	19-9945	2	97-6035	9	X21-170357	6
19-9301	8			97-6036	9	X21-170358	10
19-9302	9	97-0004	10	97-6037	9	X21-170407	9
19-9303	9	97-0030	7	97-6038	8	X21-170857	2
19-9304	9	97-0031	7	97-6391	9	X21-200407	2
19-9307	10	97-0032	9	97-7001	4	X21-200458	2
19-9309	8	97-0033	9	97-7002	4	X21-200908	2
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19-9313	8	97-1022	12	97-7007	1	X24-140228	3
19-9314	8	97-2006	11	97-7345	1	X24-140257	8
19-9317	8	97-3044	8			X24-140457	9
19-9318	8	97-4002	10	X10-140157	7,10,12	X24-170352	2

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
X24-170358	8	X32-503121	12	X91-173131	9	X98-060311	6
X24-200357	6	X32-503122	12	X91-173145	2	X98-080032	1
		X32-503131	12	X91-173190	11	X98-090005	6
X25-170222	2	X32-503132	12	X91-173197	10	X98-090006	6
		X32-504610	9	X91-173467	6		
X32-401101	1	X32-504611	9	X91-173539	6		
X32-401131	7	X32-504612	9	X91-202186	3		
X32-401132	11	X32-505213	12	X91-202187	3		
X32-401133	8	X32-506210	1,7	X91-203013	8		
X32-401171	9	X32-506211	1,7	X91-203206	10		
X32-401201	9	X32-506212	7				
X32-401203	10	X32-506213	7	X93-140033	4		
X32-401241	12			X93-140034	4		
X32-401281	9	X34-100551	1	X93-170027	11		
X32-401501	7			X93-170038	3		
		X61-6112	10	X93-230059	1		
X32-501520	9	X61-6113	10				
X32-501521	9	X61-6114	10	X94-170035	5		
X32-501522	9						
X32-501530	7			X96-141039	11		
X32-501823	6	X91-121196	11	X96-141041	5		
X32-501911	11	X91-121362	1	X96-141053	9		
X32-501912	11	X91-142201	3	X96-142040	5		
X32-501930	8	X91-143004	2	X96-142111	7		
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X32-501933	8	X91-143110	8	X96-172051	9		
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X32-502131	9	X91-143132	9	X96-172110	2,8		
X32-502132	9	X91-143189	9	X96-172113	7		
X32-502321	9	X91-143198	9	X96-172114	9		
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X32-502622	9	X91-143266	9	X98-030068	9		
X32-502710	9	X91-143267	9	X98-030069	1,9		
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X32-502712	9,10	X91-143286	7	X98-040126	12		
X32-502715	10	X91-143360	8	X98-040127	12		
X32-503110	11	X91-143361	1	X98-040371	2		
X32-503111	11	X91-143366	7	X98-060104	7		
X32-503112	11	X91-143427	6	X98-060105	7		
X32-503113	11	X91-173012	9	X98-060106	7		

TABLE OF CONTENTS

Disassembling Method	page
Top Cover	4
Exposure Meter	5
Adjusting Method	
Exposure Meter	6
Trouble, Cause & Remedy	
Exposure Meter	7
Inspection Standard	8

TOP COVER DISASSEMBLING

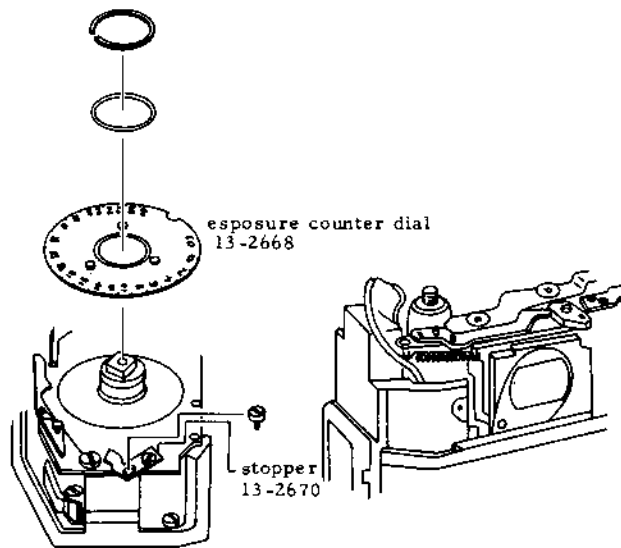


Work

Procedures & n.b.

- | | | | |
|---|-------------------------------|--|---|
| 1 | Taking out Winding Lever | Take out <u>pin face screw</u>
13-2520 | Take out <u>winding lever</u>
12-9295 |
| | | <u>Shaft of winding lever</u>
15-2523 | |
| | | n.b. Take out pressure plate and spring washer in the winding lever portion together with the lever. | |
| 2 | Taking out Film Rewind Ring | Loosen <u>screw x 3</u>
X10-140206 | Take out <u>film rewind ring</u>
13-2113 |
| 3 | Taking out Shutter Speed Dial | Loosen <u>screw x 2</u>
X10-17258 | Take out <u>screw x 1</u>
13-2601 |
| | | Take out <u>shutter speed dial.</u> Take out <u>film speed dial.</u>
13-2466 19-9326 | |
| | | n.b. At loosening the screw X10-170258, set at ASA 400, and at fixing, set at 1/15 sec., ASA 400, and f 22 (red mark) S10. | |
| 4 | Taking out Rewind Crank | Take out <u>rewind crank</u>
13-9319 | |
| 5 | Taking out Flash Terminal | Take out <u>flash terminal</u>
19-9789 | |
| 6 | Taking out Screw | Take out <u>screw</u>
X25-170222 | |
| 7 | Taking out Top Cover | Take out <u>top cover</u>
19-9776 | |
| | | n.b. Set switch of meter photo cell at L. | |

EXPOSURE METER DISASSEMBLING



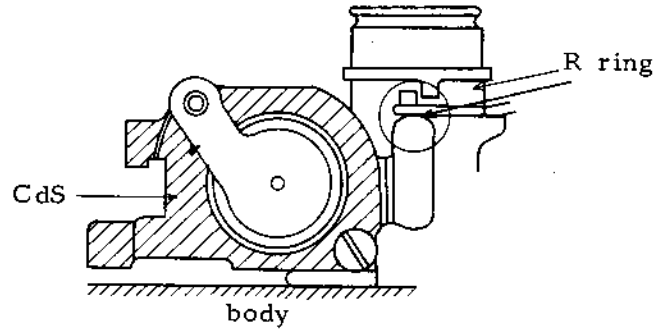
Works	Procedures & n.b.	
1 Taking out Film Counter Dial	Take out <u>screw</u> x 1	Take out <u>retainer</u> 13-2527
	Take out <u>washer</u> X98-090005	Take out <u>film counter dial</u> 13-2668
	n.b. Take out one screw for stopper and let the stopper away. Shown in the diagram	
2 Taking out Clutch lever	Take out <u>screw</u> X96-408116	Take out <u>clutch lever</u> 19-9875
3 Taking out Soldering	Take out soldering shown in the diagram	
4 Taking out CdS	(1) Take out a screw. Take out CdS.	
	(2) Take out a screw.	
	n.b. Screw (1) is above the plate. Screw (2) is at front.	
5 Taking out Wiring	Take out wiring which is in the groove of body.	
6 Taking out Meter	Take out meter screw x 2. Take out meter.	
	n.b. Pay attention at taking out meter from the body as the needle should not touch to light shield plate and diaphragm graduation plate.	

EXPOSURE METER ADJUSTMENT

1 How to fix

Refer to "How to Disassemble" of meter.

n.b. 1-1 At wiring insert it completely into the groove of body.



1-2 There must not be any space with R ring at CdS fixing. arrow portion

2 How to Adjust

Since there is no zero position in the meter so that it is qualified if it is within the limit at the appointed check point.

2-1 Adjustment of (H) for high sensitivity

Check point (stripe)	brightness (cd/m ²)	Limit
S7	51	± 0.5F
S9	205	

2-1-1 If the needle swings too much.
Paint a black at CdS.

2-1-2 If the needle swings too little.
Remove the needle to (+) direction.

2-2 Adjustment of (L) for low sensitivity.

Check point (stripe)	brightness (cd/m ²)	Limit
S1	205	0.75F
S3	819	
S6	6554	

2-2-1 If the needle swings too much.
Stick ND filter for FX to the pin hole.

2-2-2 If the needle swings too little.
Chip off the pin hole bigger.

n.b. The limit of balance for high sensitivity S7 and low sensitivity S1 must be within 0.75F.

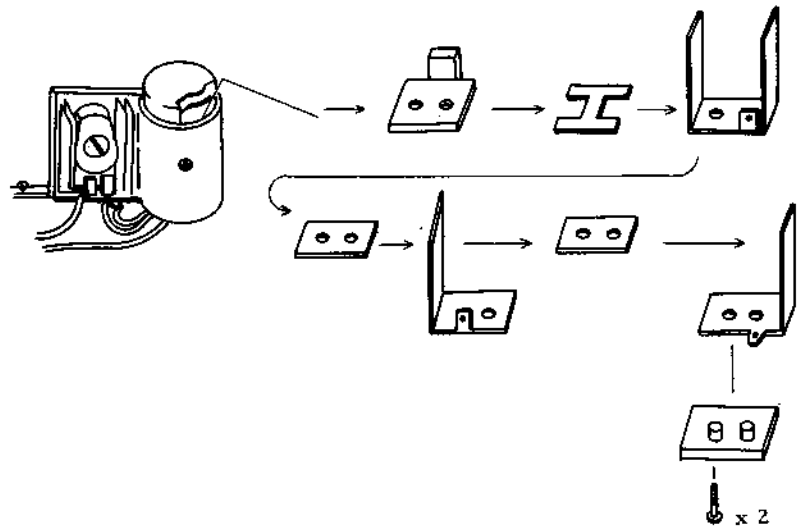
TROUBLE, CAUSE & REMEDY

EXPOSURE METER

Meter does not operate.

- 1 Caused by inferior meter wiring, short circuit, and inferior switch contact.

1-1 Readjustment



- 2 Inferior meter itself

2-1 Replace the meter.

Stuck Meter Needle

- 1 The needle touches to stripe plate and light shield plate.

1-1 Rectify high and low of the needle.

- 2 Dust gets into inside meter.

2-1 Clean up inside.

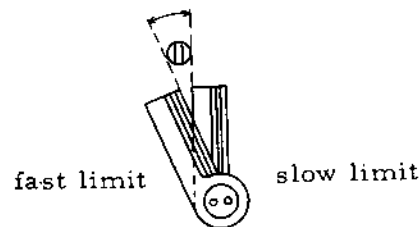
Inferior Meter Precision

Refer to the adjustment item.

INSPECTION STANDARD


Inspection Items	Methods	Inspection point & standard
1 Range Finder		
1 Field of View of Finder	Universal Parallax Collimator - 1	Measure at 50mm within $90 \pm 10\%$ Measure at 100mm within $90 \pm 10\%$ both close up.
2 Rangefinder Precision	Universal Range Viewfinder Collimator	Right & left \pm both ∞ , close up within up & down + 1'30"
2 Shutter Portion		
1 Shutter Precision	PA-16 Transistor Shutter Tester	1/1000 - 1/500 +40% 1/250 - 1/1 -20% $\pm 20\%$
2 FP Time Lag X Time Lag	PA-16 Transistor Shutter Tester	upper A 8.0 - 11.5ms upper A 0.4 up middle B 1.5ms up
3 Curtain Speed		14.5ms - 15.5ms
4 Charging Condition of Second Curtain	Eye measurement	Pasted section of the second curtain should not appear operated at 1/1000.
5 Self Timer	By feeling	8 sec. - 12 sec. Refer to the clicking position of diagram below.

It must click within the scope.



6 Moves of Shutter Button	By feeling	The clicking position and its move must be normal and pressure must be 350 - 550g.
7 Shutter Dial	By feeling	Click must be effective in proper weight.
8 Others	PA-16 Transistor Shutter Tester	i Unevenness or unsteady clicking should not be qualified, the balance must be normal, and jump must be avoided.

8	Others	PA-16 Transistor Shutter Tester	<ul style="list-style-type: none"> i Unevenness or unsteady clicking should not be qualified, the balance must be normal, and jump must be avoided. ii B, T must operate completely. iii There should not be any skip or stop in the slow shutter.
3	Winding up and Rewinding		
1	Winding Condition	By feeling	There should not be any stuck, rubbing, unevenness, double winding and inferior space.
2	Some Room for Winding		There should be some room for winding, and stroke.
3	Spool and Sprocket		Spool friction must be effective. In the state of pushing the button letting the sprocket rotate the pin must touch to.
4	R Button		At position R the sprocket must rotate without any catching. And at red position it must be that the shutter button cannot be pressed down.
5	Safety		Each safety mechanism must operate normally.
6	Operation of Film Counter	Eye measurement	Forward and return must be stable. Aberration of the indicator must be within the numeral width.
7	Lever Return	By feeling	It should return steadily without any stuck or caught. It must stop within the free angle and should not touch to the cover.
8	Rewinding Crank	By feeling	Going in and out, and also rotate smoothly.
4	Meter Portion		
1	Meter Precision	Inspection Device for Canon Meter	<p>(H) S_7 51cd/m^2 S_9 205dc/m^2 $\pm f 0.5$</p> <p>(L) S_1 205cd/m^2 S_3 819cd/m^2 S_6 6554cd/m^2 $\pm f 0.75$</p> <p>Balance limit of S_7 in H and S_1 in L must be within $f 0.75$.</p>
2	Regulating Position	Eye measurement	White 2 of the diaphragm plate must

2	Regulating Position	Eye measurement	White 2 of the diaphragm plate must come to the same line of S_1 and red 2 to S_9 at ASA 100 and 1/250. Red 2 of the diaphragm plate must come to the same line of S_1 at ASA 100 and 1/1.
			 <p>regulated position</p>
3	Moves of Meter Needle		Let it swing up to S_{10} and it should not catch on the way.
4	Switch of On and Off	Eye measurement	It must clearly switch over and the click must be effective in proper weight, and the rotation must be smooth and no backlash.
5	Switch of ASA Sensitivity	By feeling	At the time dowell is pressed, it must switch over smoothly and at letting go your hold, it should not stop.
5	Contact and Insulation	DC 500V mega	Measure at contact B and 1/1000 and less than $3\ \Omega$ and insulation must be more than $30M\ \Omega$ at the same points.
6	Focal Plane	Dial gauge	At four corners 28.94 ± 0.02
7	Others		
1	Outlook	By feeling	There should not be any remarkable scratch or soil in the cover, base lid, and body.
2	Open and Close of Back Lid	By feeling	Open, close and hook must be steady and should not be too weak snap.

CANON SERVICE TOOLS LIST

CANON 7S
(REFERENCE NO. 1-10611)

TESTING EQUIPMENTS

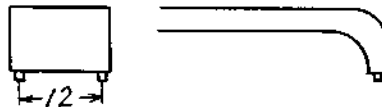
<u>Use</u>	<u>Names of Testing Equipment</u>
Exposure Meter	<ol style="list-style-type: none"> 1. Inspection device for Canon meter 2. Resistance meter (0-1 mega ohm)
Shutter	<ol style="list-style-type: none"> 1. PA-16 transistor shutter tester or Simplified shutter test unit
Focal plane	<ol style="list-style-type: none"> 1. 28.8 dial gauge
Adjusting	<ol style="list-style-type: none"> 1. C10601 substitutive winding lever 2. C10601 substitutive bearing 3. C10601 substitutive cam 4. C10601 winding gadget-1

SPECIAL SCREWDRIVERS

T06A-C2280-2

(13-2520)

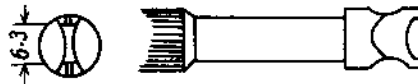
(Common to VL, VI,
P, Demi, Demi S,
Canonet Jr, 7)



Tightening Pin Face Screw

T06A-C151-367-1

(Common to 7)



Tightening rewinding indicator

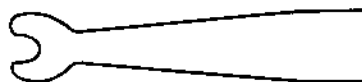
T06A-13-2715-1



Tightening Flash Terminal

T06A-C0747A

(Common to VI, P, 7)



Tightening focusing roller

T06A-C9747B

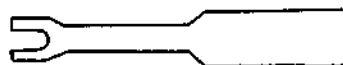
(Common to VI, P, 7)



Tightening focusing roller

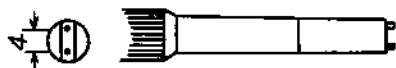
T0199-13-2051-2

(Common to 7)



Adjusting high speed shutter

T06A-C2375-1
(Common to 7)



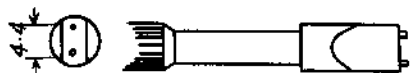
Tightening Pin Face Screw C2375

T0103-13-0184-1
(Common to 7)



Tightening fastening nut for
brake lever of 1st curtain

T06A-C0998-1
(Common to V, VI,
P, FX, FP, 7)



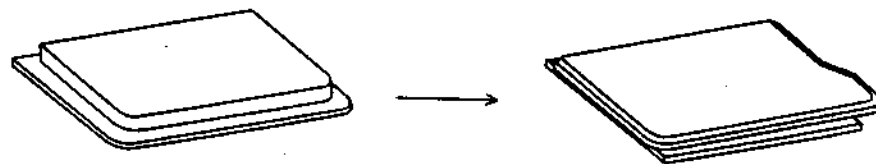
Tightening Pin Face Screw

Altered Top Cover, Canon 7S

1 Alterations

The window of the Top Cover and the illuminating window sometimes come off in accordance with environment in variation of the temperature. In order to prevent this trouble, the shape of the holder for the window and the illuminating window is altered as it does not come off easily. The number of the Top Cover 19-9776 is altered to 19-9776-05.

Window



2 Repairings

The stock of the Top Cover will be gradually made to the altered one. In need of the altered Top Cover, specify the number.