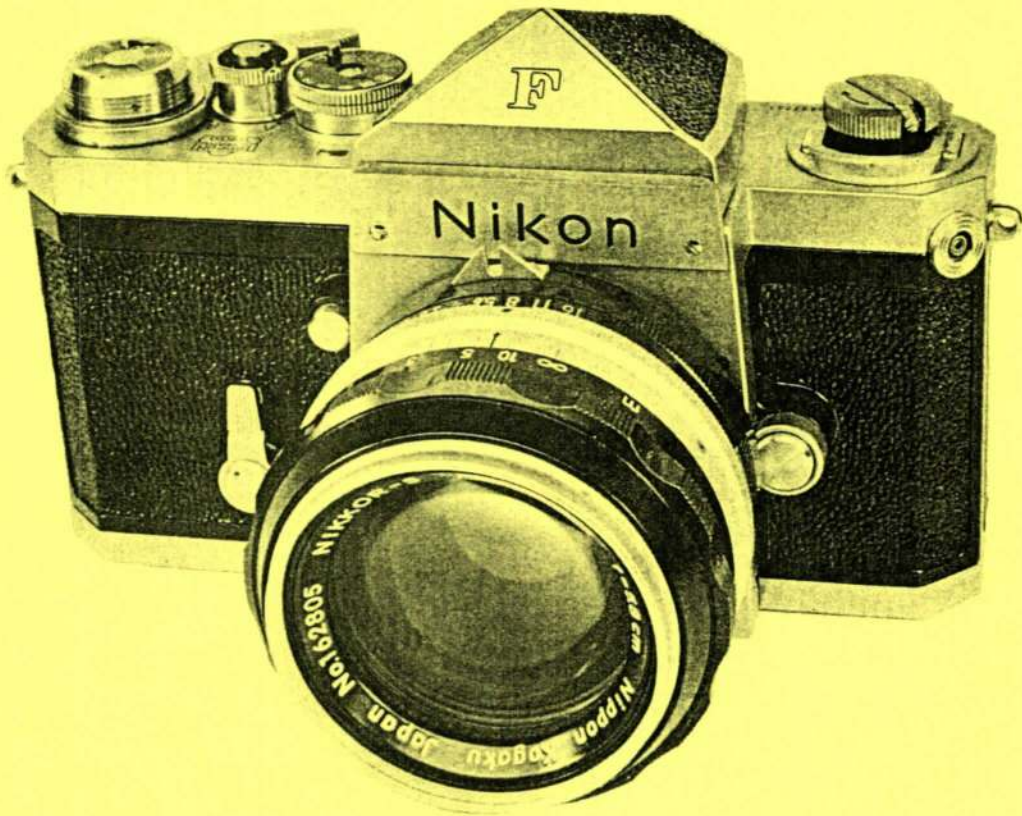


# NIKON

# F



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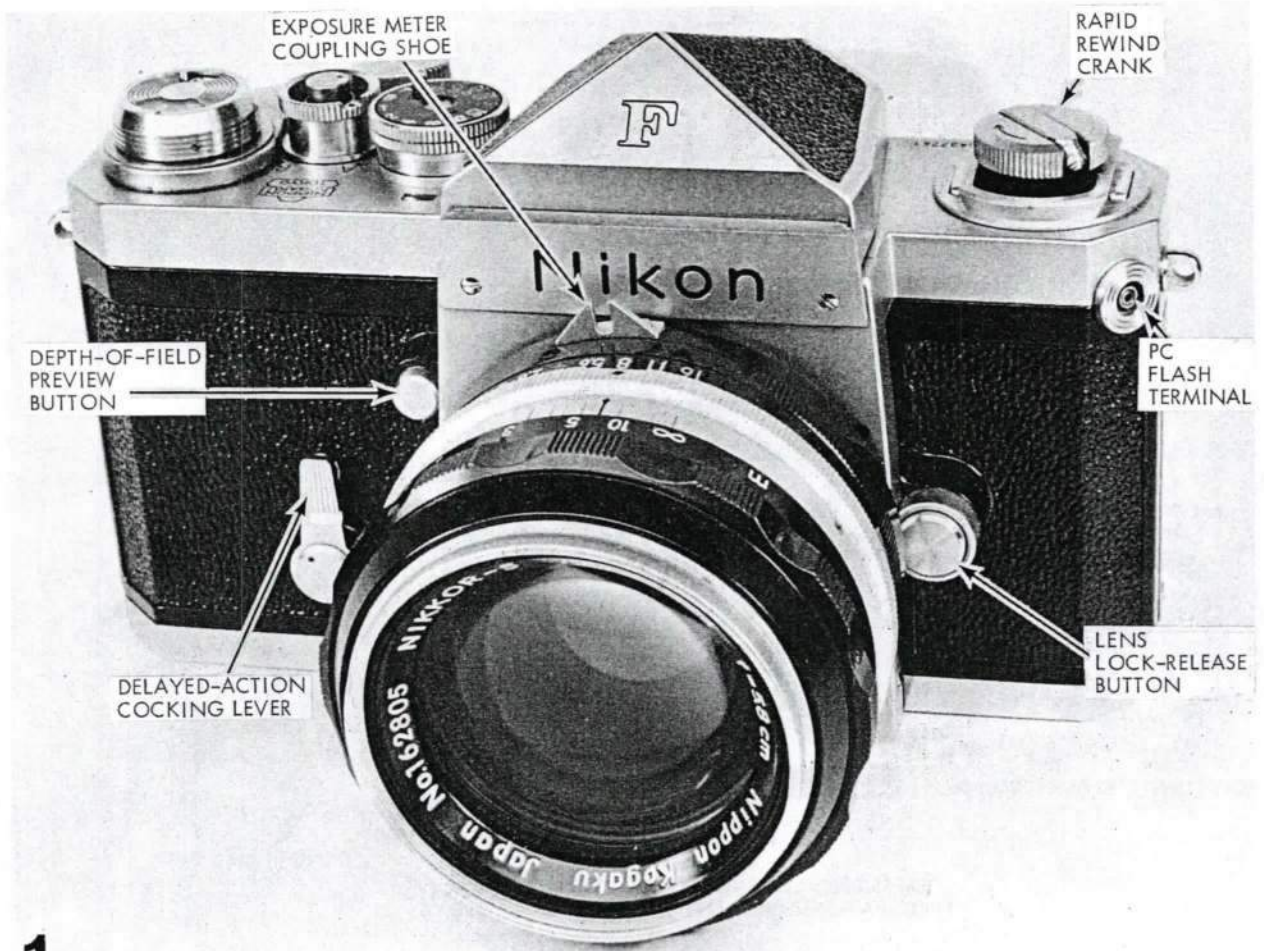
**NATIONAL CAMERA**  
**TECHNICAL TRAINING DIVISION**

2000 W. Union Avenue • Englewood, Colorado 80110



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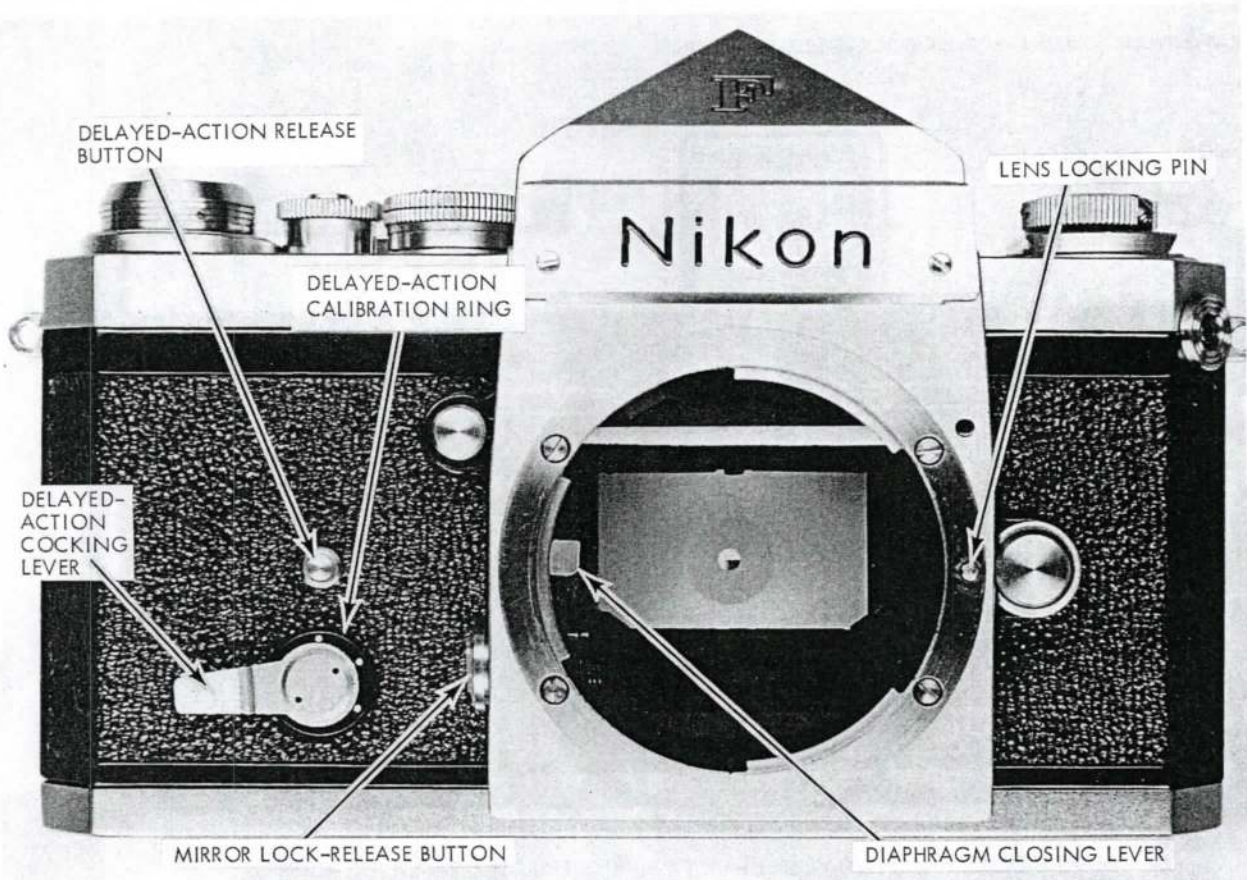


1



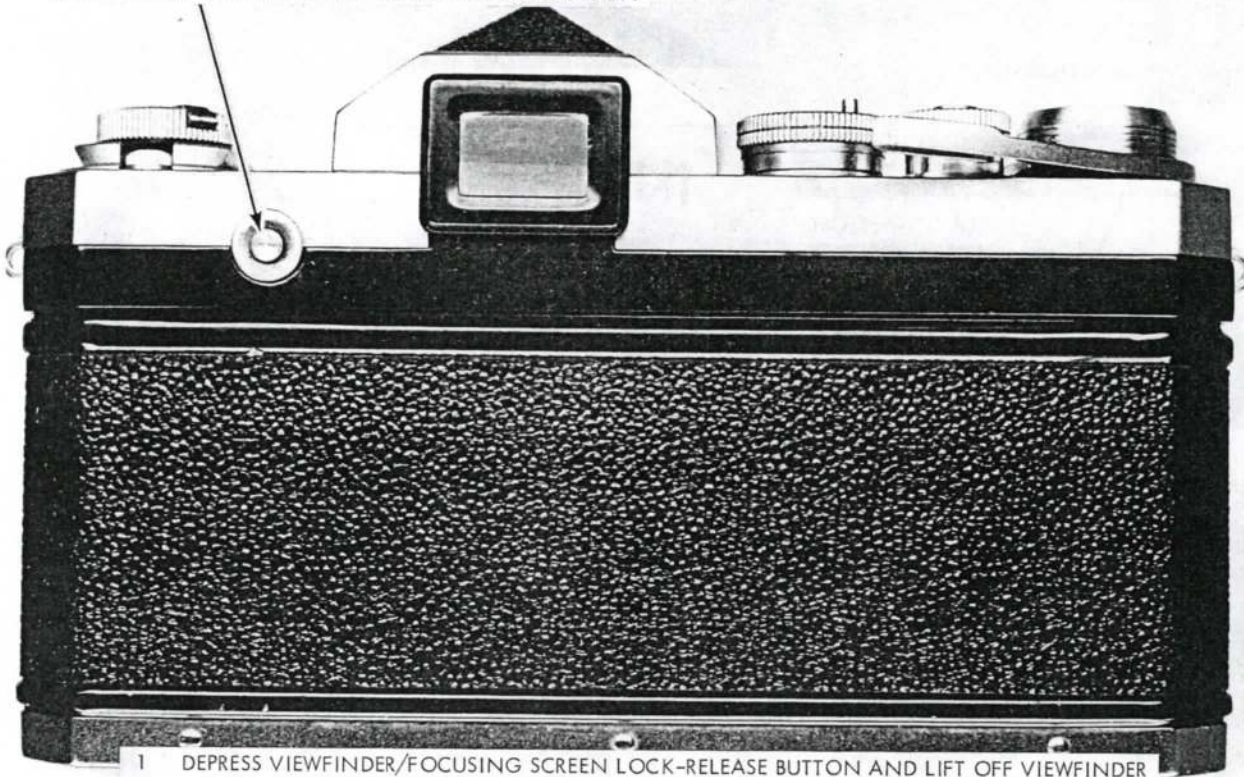
2

DEPRESS LENS LOCK BUTTON AND REMOVE LENS FROM BAYONET MOUNT



3

VIEWFINDER/FOCUSING SCREEN LOCK-RELEASE BUTTON

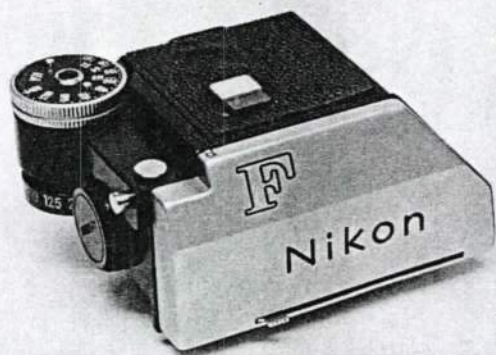


1 DEPRESS VIEWFINDER/FOCUSING SCREEN LOCK-RELEASE BUTTON AND LIFT OFF VIEWFINDER

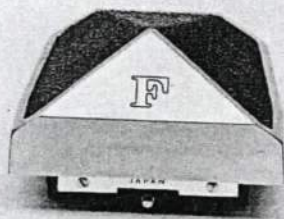
**4**

2 INVERT CAMERA AND HOLD YOUR HAND OVER FOCUSING SCREEN CAVITY—DEPRESS VIEWFINDER/FOCUSING SCREEN LOCK-RELEASE BUTTON AND ALLOW FOCUSING SCREEN TO DROP INTO YOUR HAND

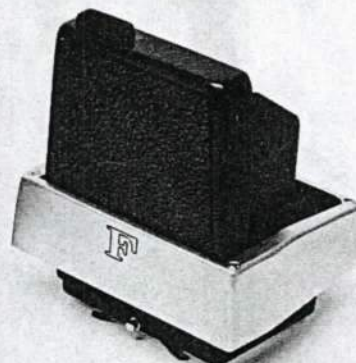
INTERCHANGEABLE NIKON VIEWFINDERS



PHOTOMIC FINDER



EYE-LEVEL  
FINDER



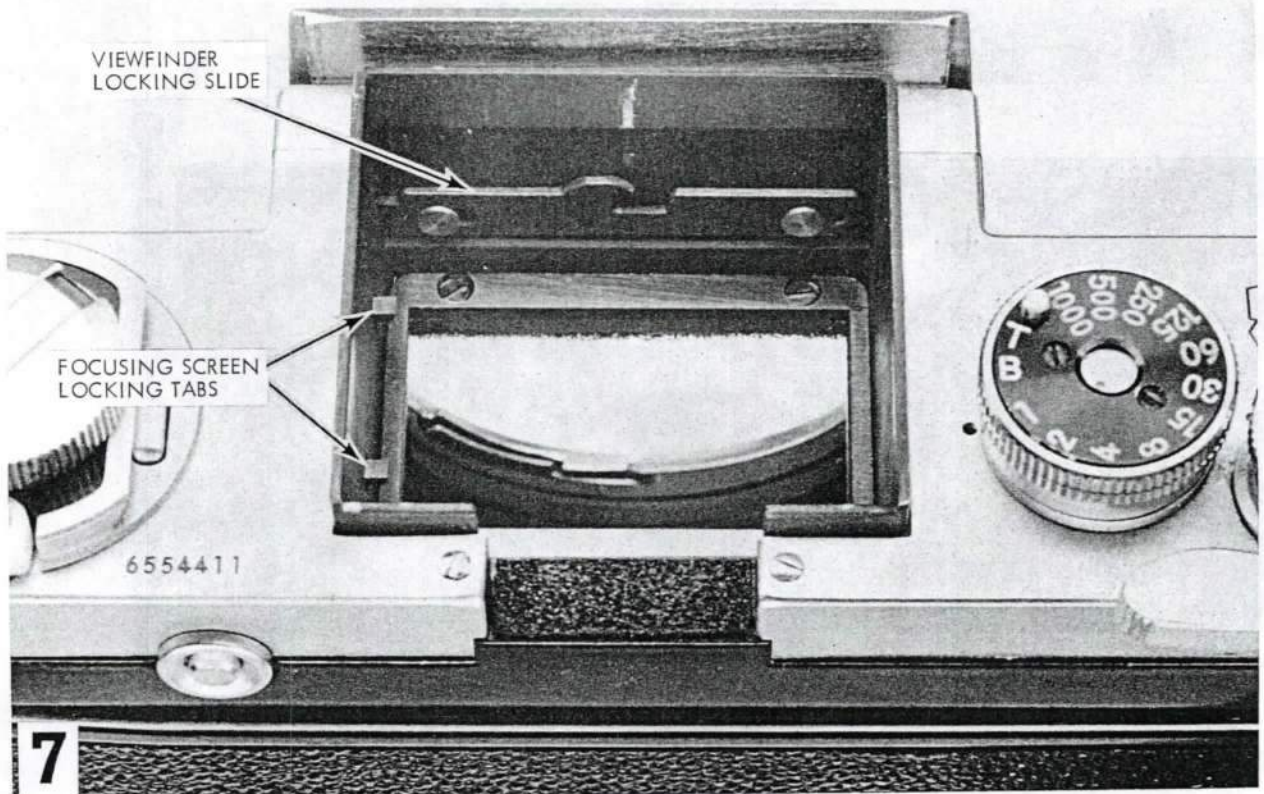
WAIST-LEVEL  
FINDER

NOTE  
NOTCHES

FOCUSING SCREEN

6





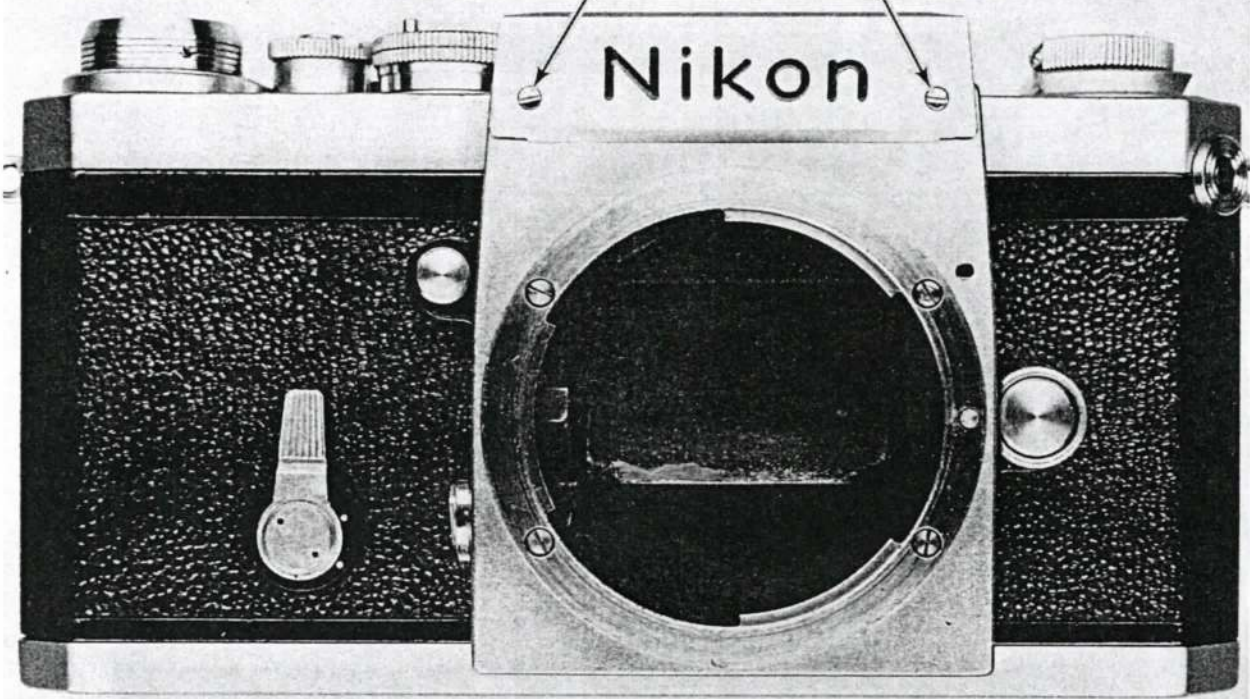
VIEWFINDER  
LOCKING SLIDE

FOCUSING SCREEN  
LOCKING TABS

6554411

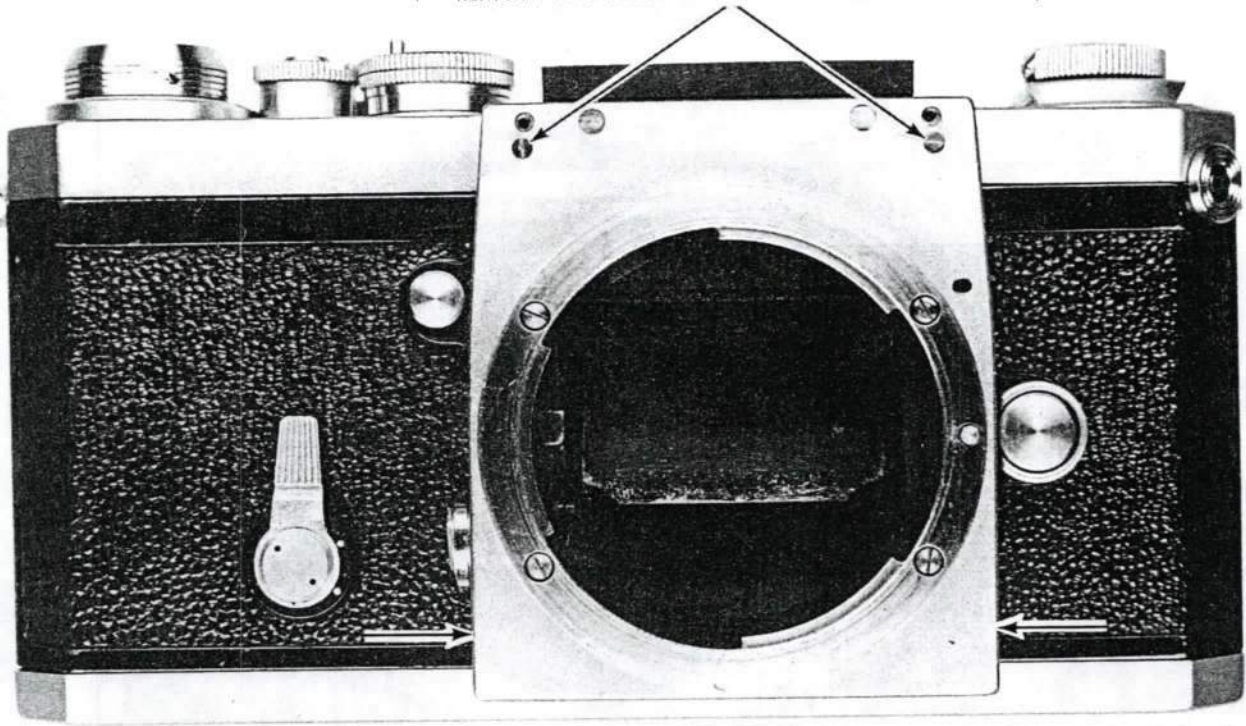
7

REMOVE SCREWS AND LIFT OFF "NIKON" NAMEPLATE



8

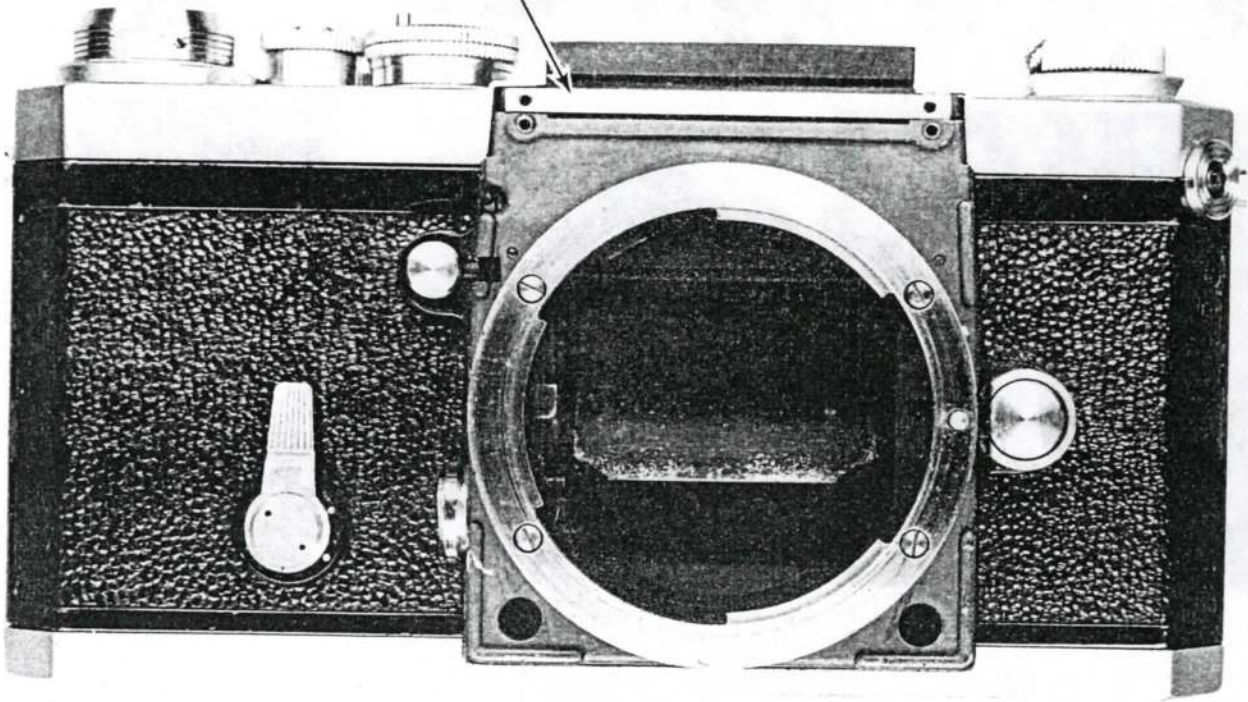
1 REMOVE TWO FRONT DECORATOR PLATE SCREWS



- 2 REMOVE TWO SCREWS AT SIDES OF FRONT DECORATOR PLATE (POSITIONS INDICATED BY ARROWS)
- 3 LIFT OFF FRONT DECORATOR PLATE

9

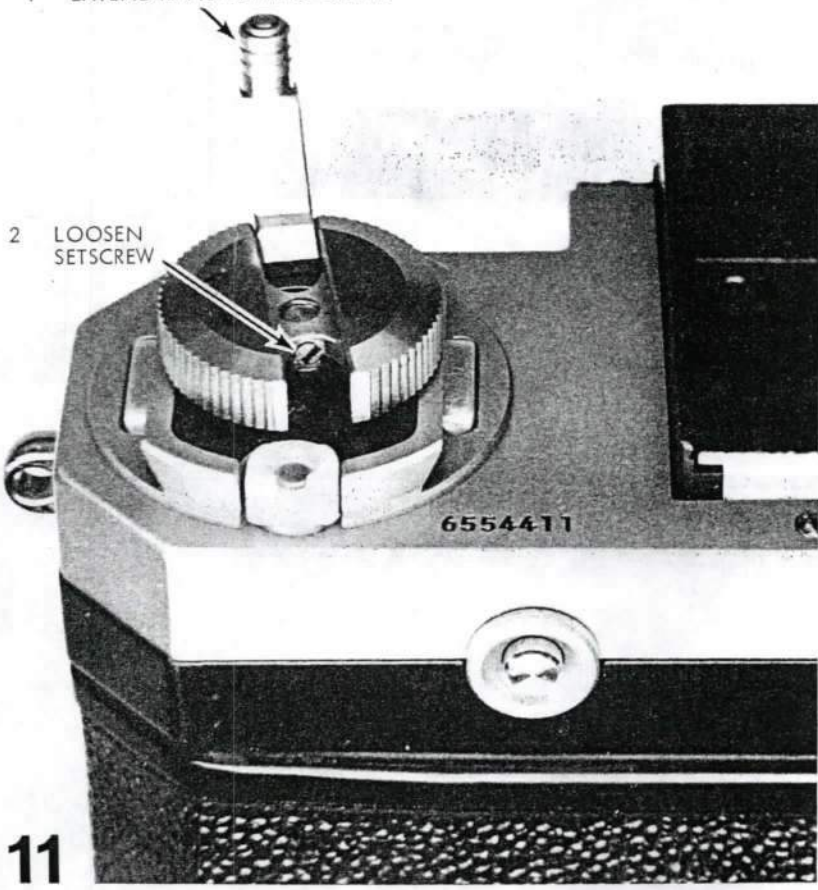
LIFT OUT THREADED CLEAT



10

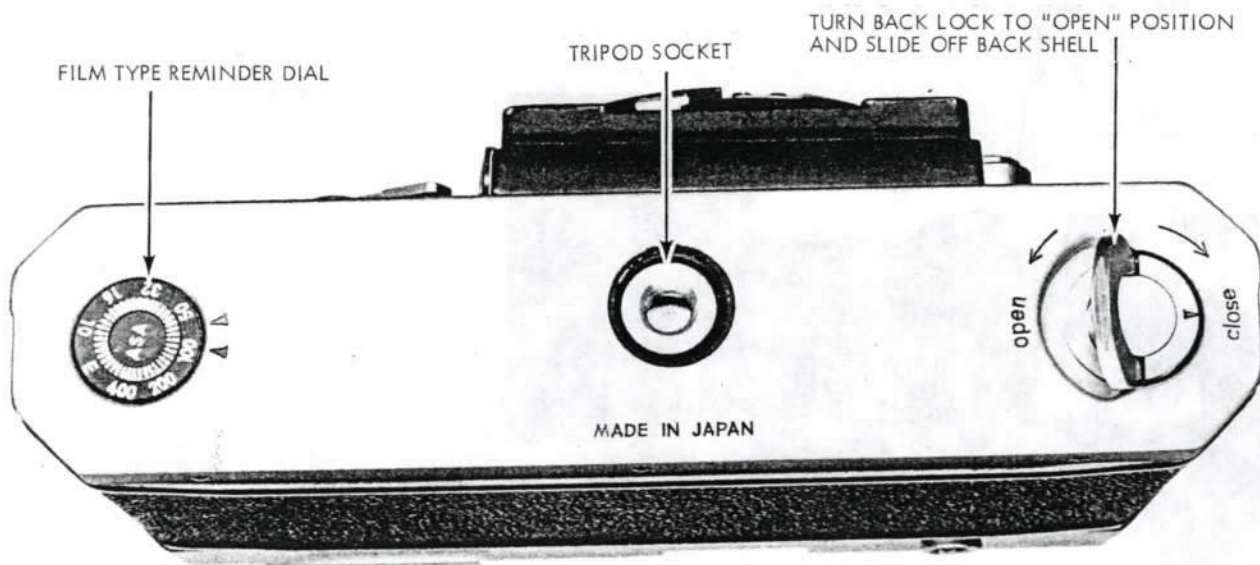
1 EXTEND RAPID REWIND CRANK

2 LOOSEN SETSCREW

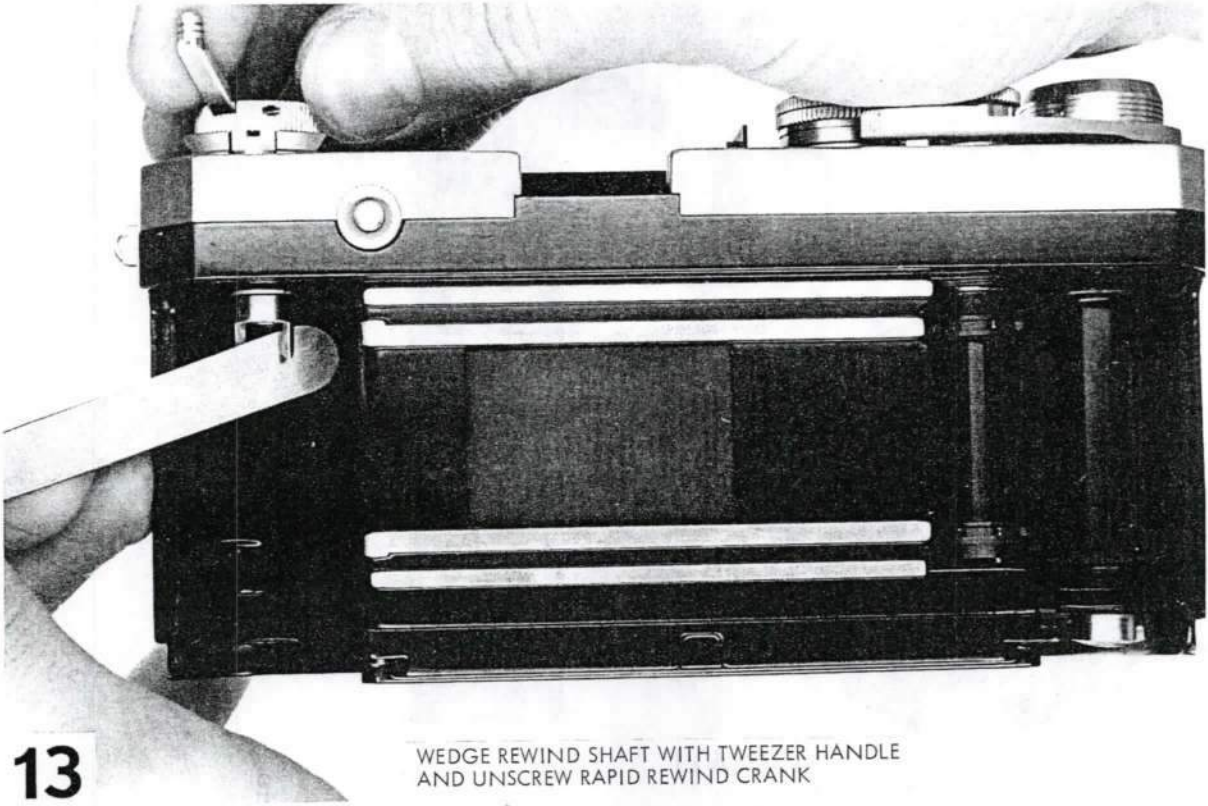


6554411

11



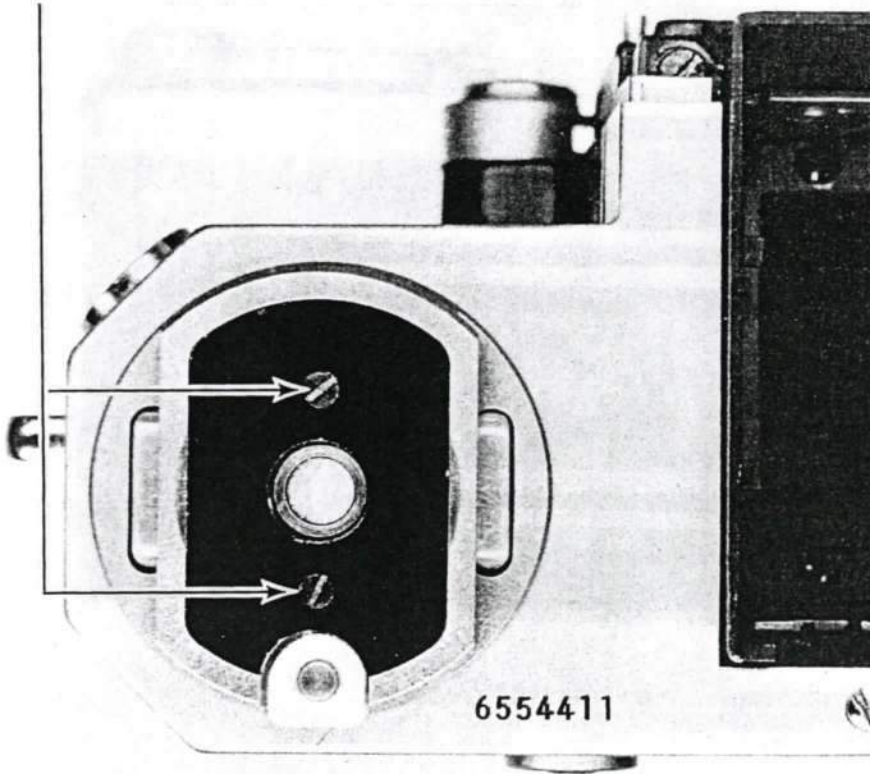
12



13

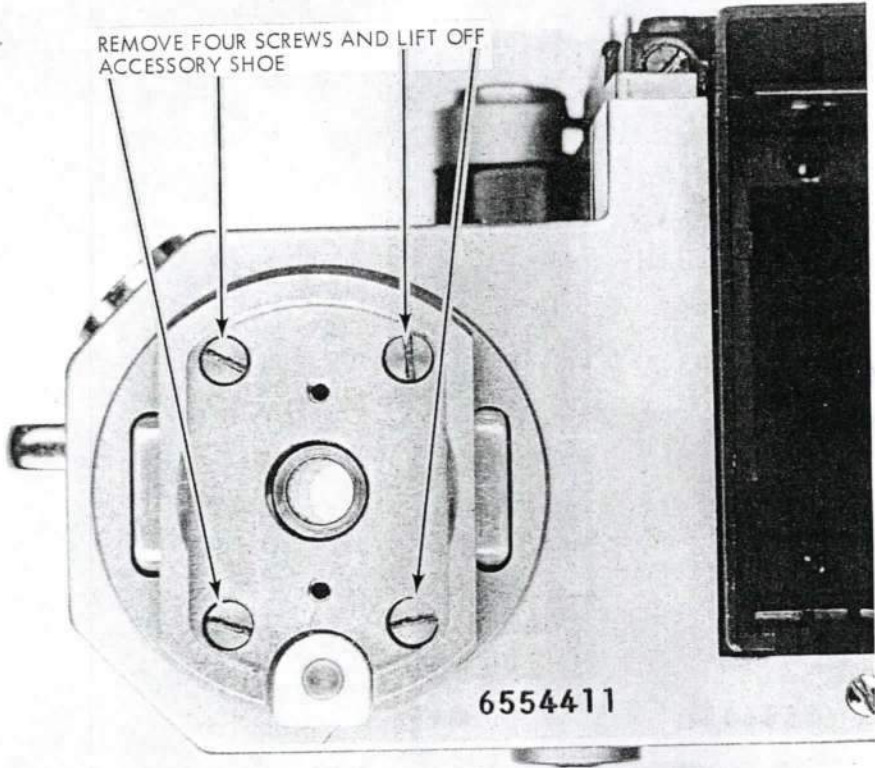
WEDGE REWIND SHAFT WITH TWEEZER HANDLE  
AND UNSCREW RAPID REWIND CRANK

REMOVE SCREWS AND LIFT OFF ACCESSORY SHOE  
DECORATOR PLATE



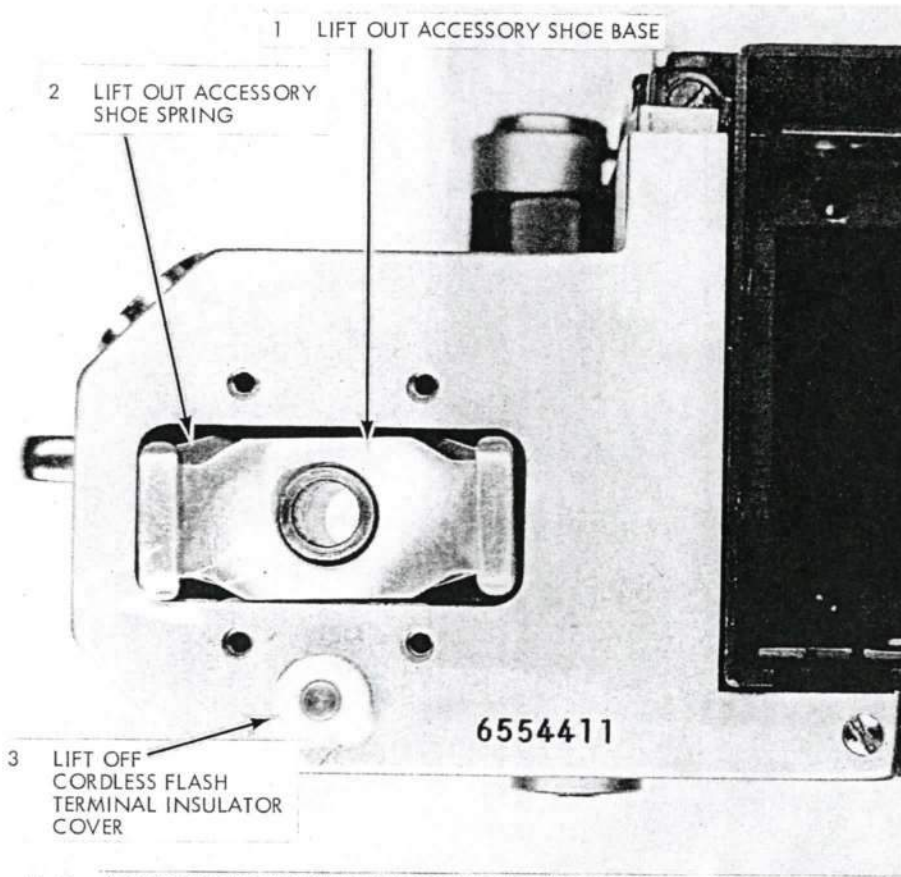
14

REMOVE FOUR SCREWS AND LIFT OFF  
ACCESSORY SHOE



6554411

15



1 LIFT OUT ACCESSORY SHOE BASE

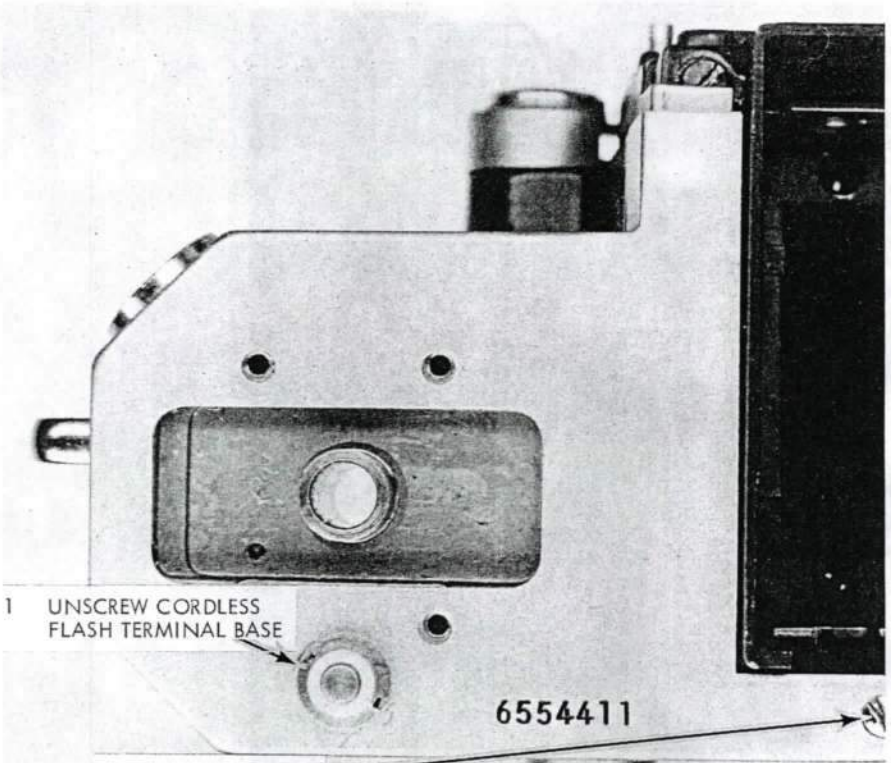
2 LIFT OUT ACCESSORY SHOE SPRING

3 LIFT OFF CORDLESS FLASH TERMINAL INSULATOR COVER

6554411

**16**

(NOTE DIFFERENCE BETWEEN CORDLESS FLASH TERMINAL SHOWN HERE AND THE ONE SHOWN IN FIGURE 2 - SIMPLY UNSCREW THE TYPE SHOWN IN FIGURE 2)



1 UNSCREW CORDLESS  
FLASH TERMINAL BASE

6554411

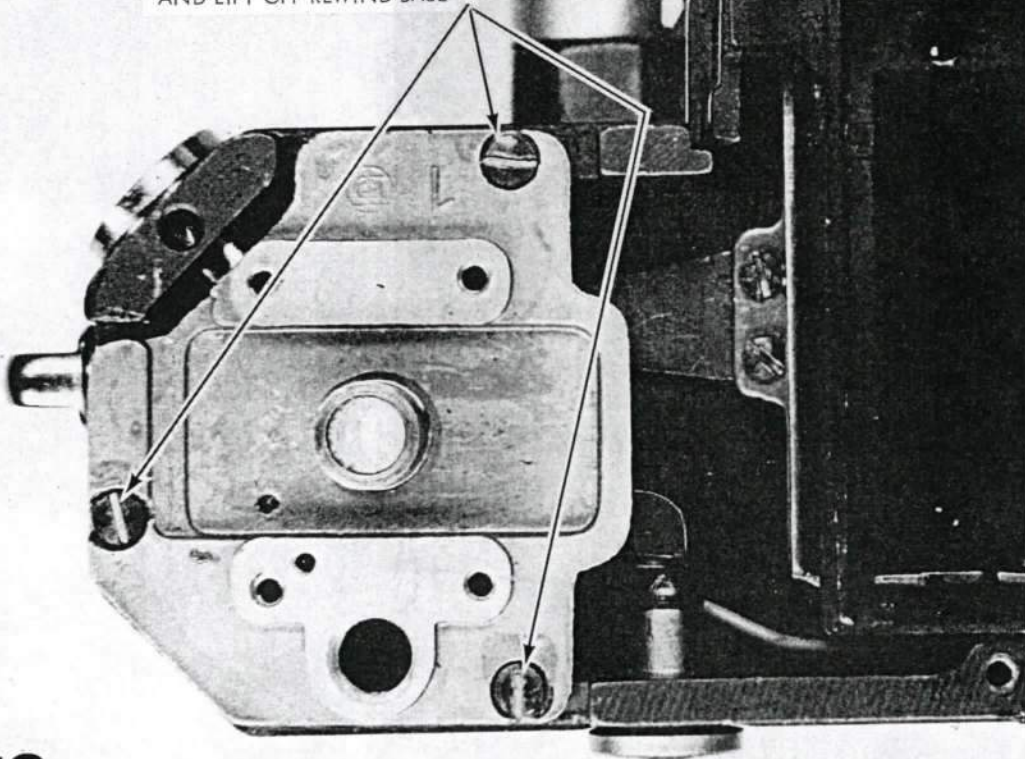
2 REMOVE SCREW

3 LIFT OFF RIGHT TOP COVER PLATE

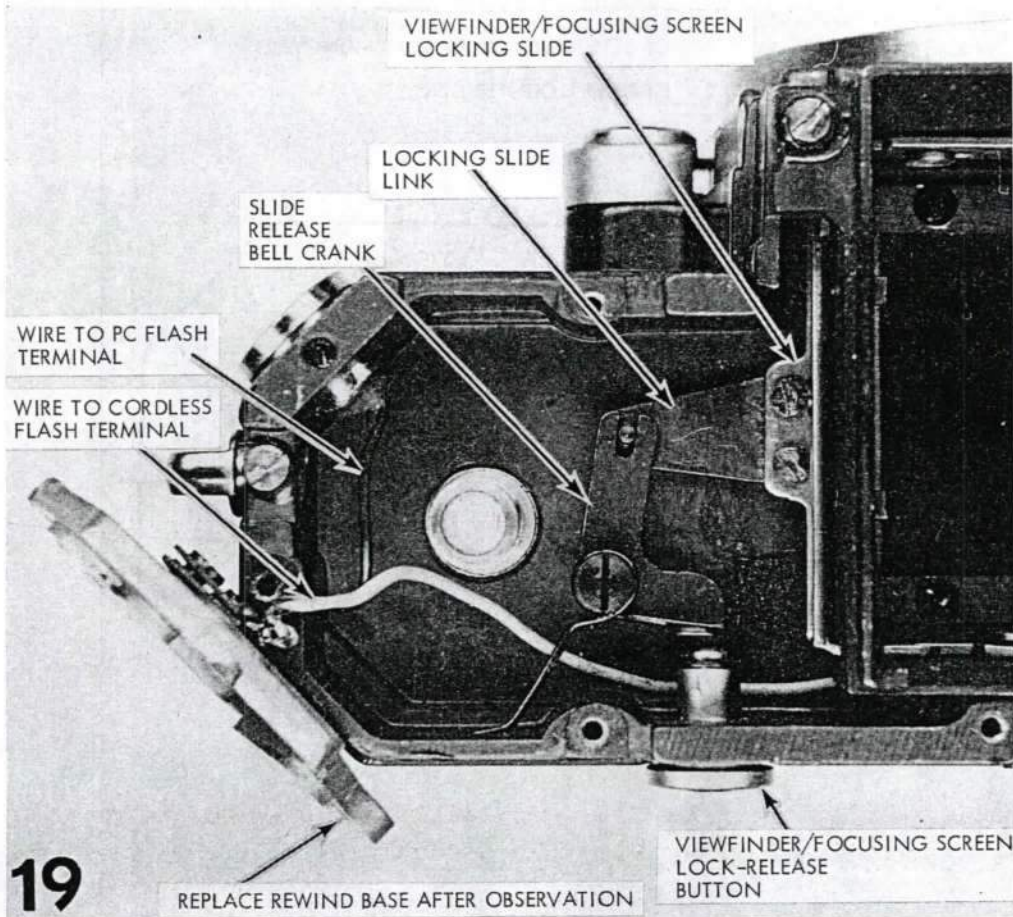
17

FOR OBSERVATION PURPOSES:

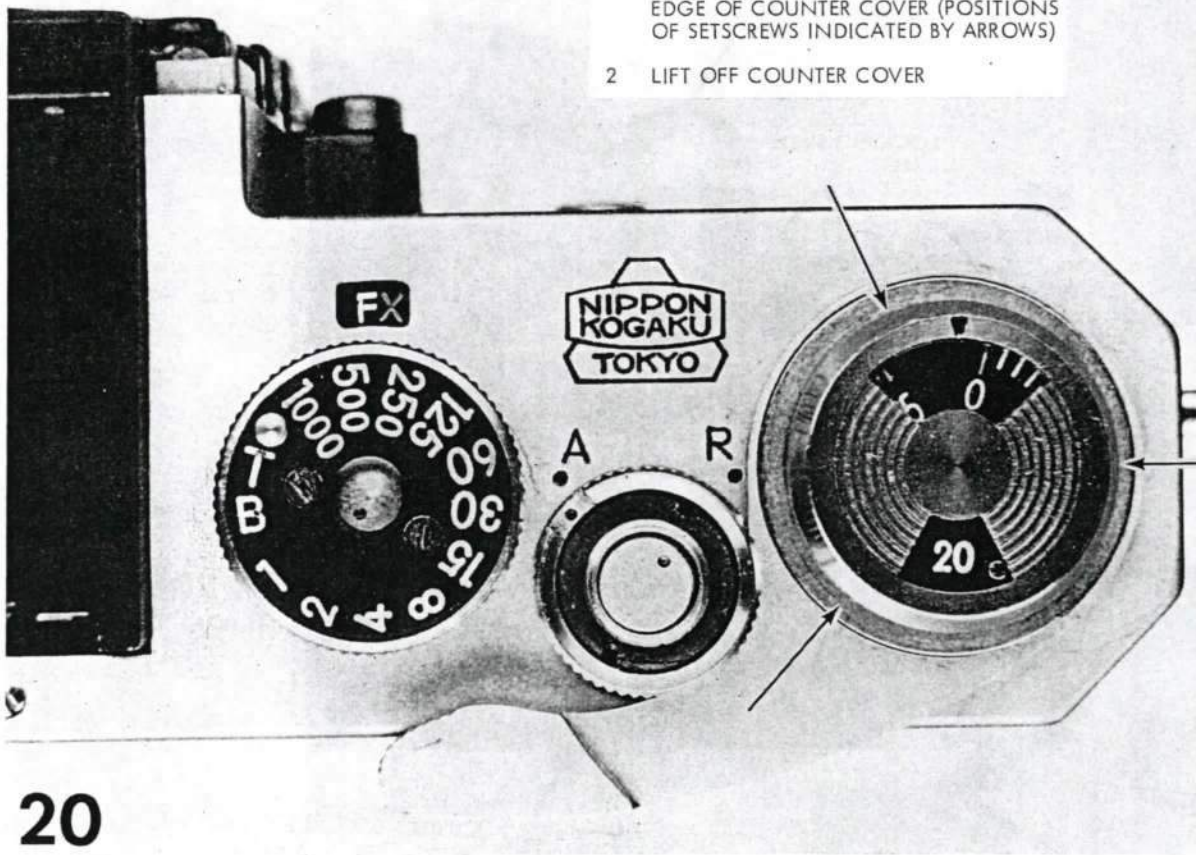
REMOVE THREE SCREWS  
AND LIFT OFF REWIND BASE



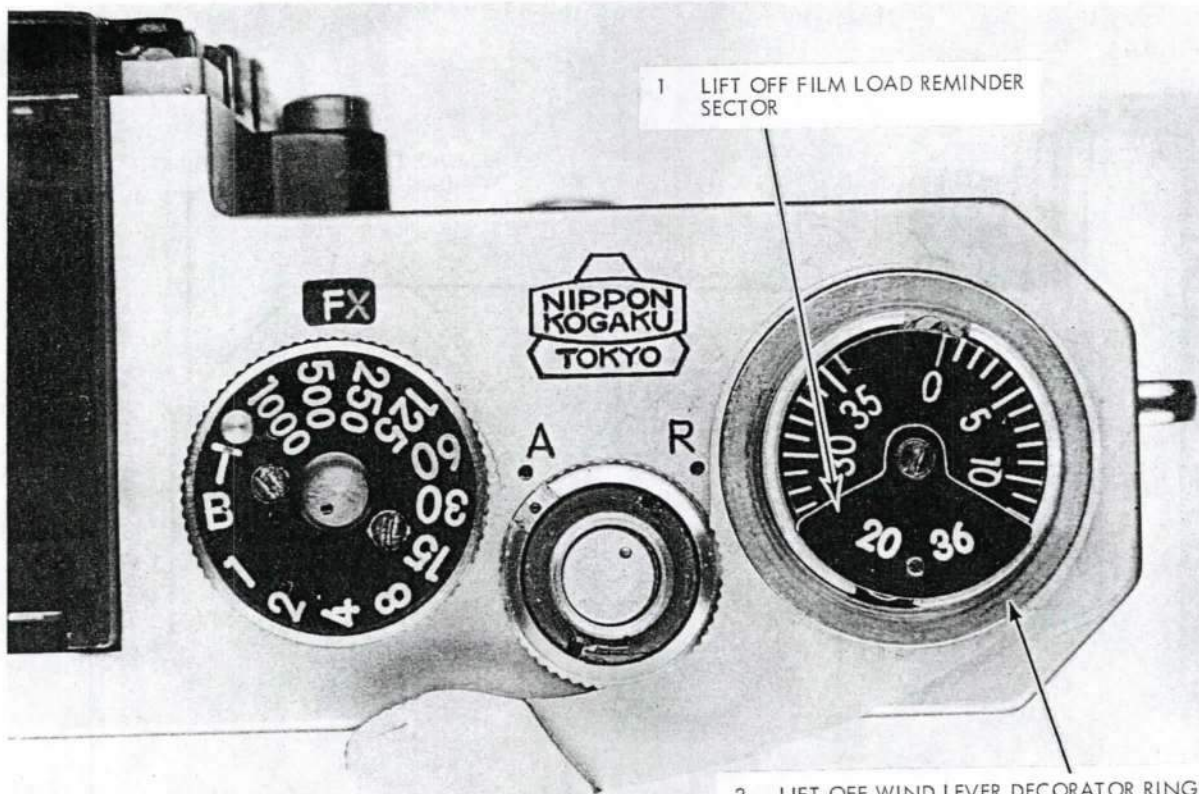
18



- 1 LOOSEN THREE SETSCREWS ON OUTER EDGE OF COUNTER COVER (POSITIONS OF SETSCREWS INDICATED BY ARROWS)
- 2 LIFT OFF COUNTER COVER

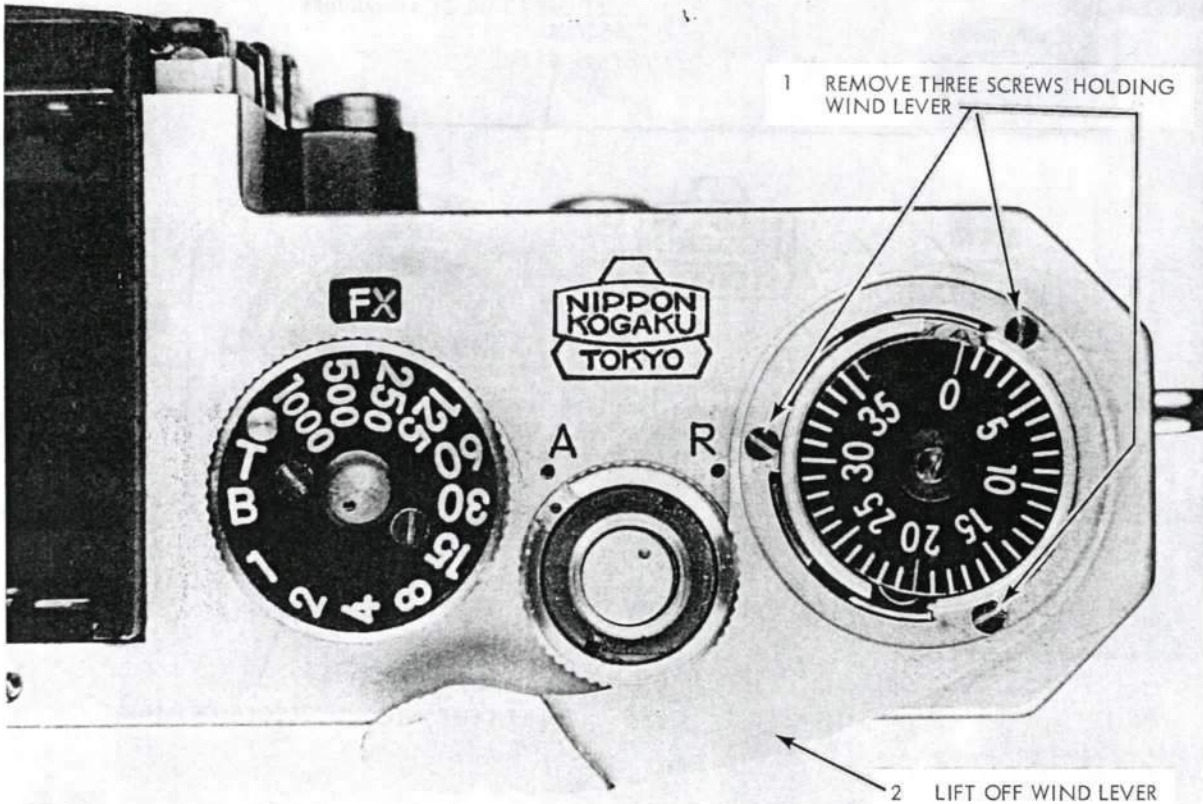


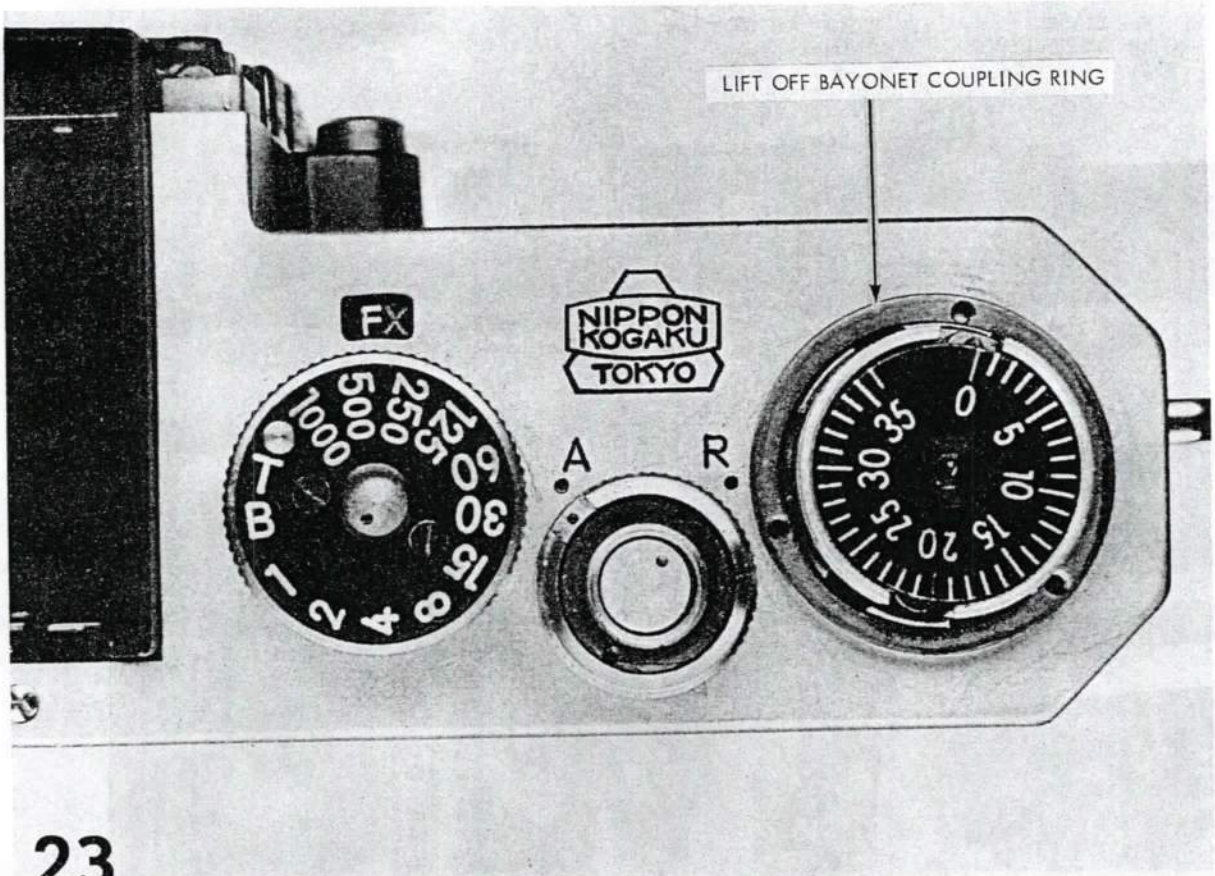
20



1 LIFT OFF FILM LOAD REMINDER SECTOR

2 LIFT OFF WIND LEVER DECORATOR RING





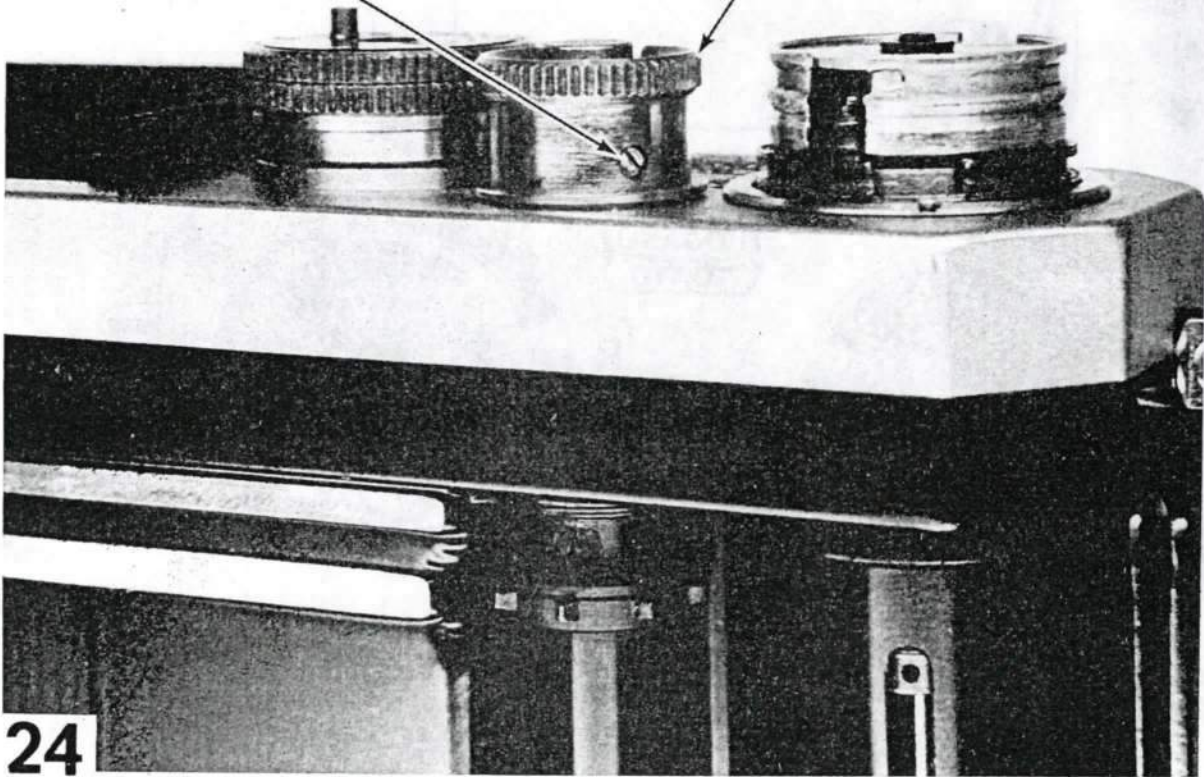
23

1 REMOVE A/R COLLAR  
LOCKING RING SETSCREW

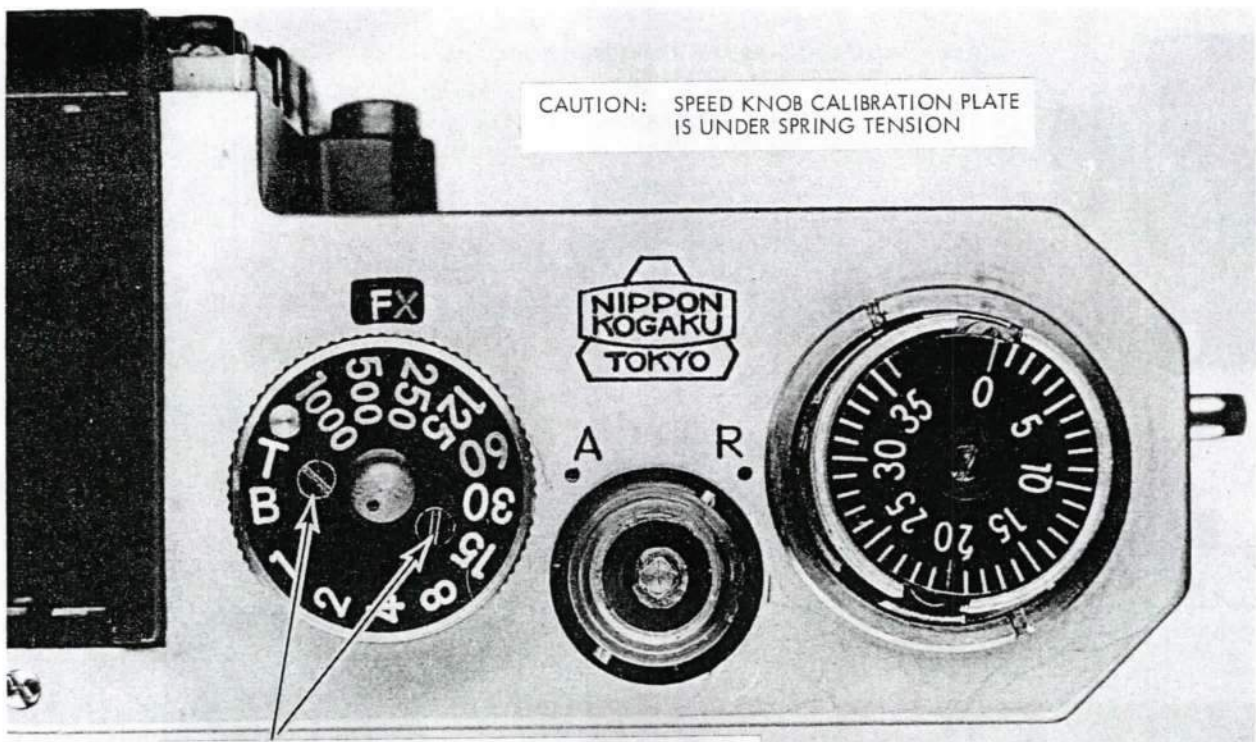
2 UNSCREW A/R COLLAR  
LOCKING RING

3 LIFT OFF A/R COLLAR

4 LIFT OUT  
RELEASE  
BUTTON



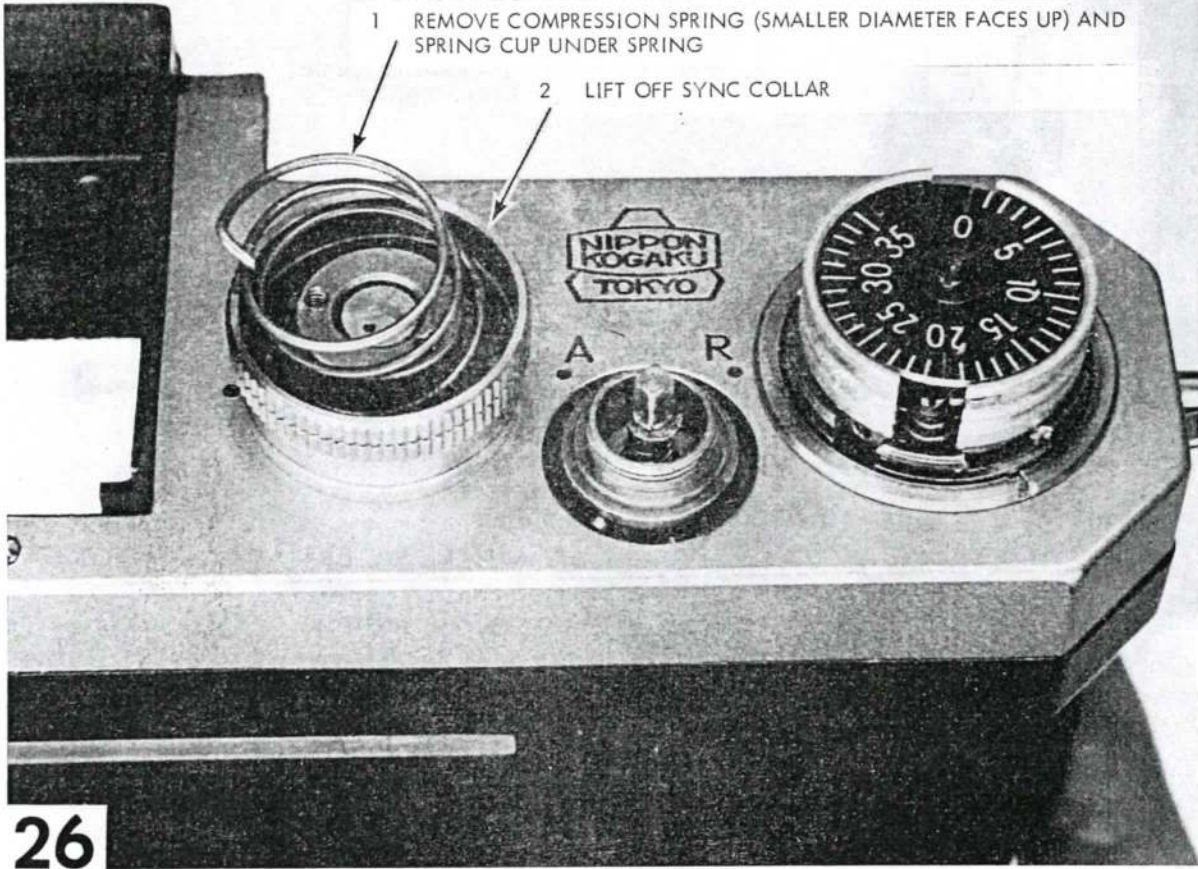
CAUTION: SPEED KNOB CALIBRATION PLATE IS UNDER SPRING TENSION

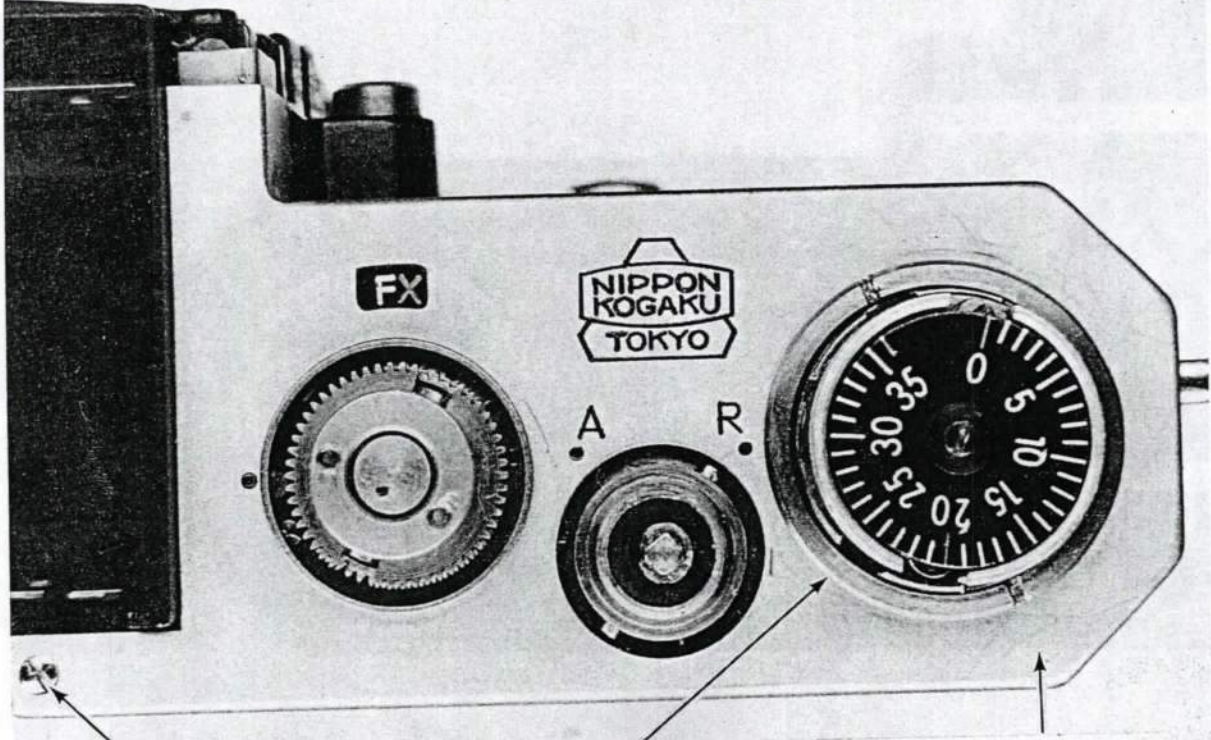


- 1 REMOVE SPEED KNOB CALIBRATION PLATE SCREWS
- 2 LIFT OFF SPEED KNOB CALIBRATION PLATE

1 REMOVE COMPRESSION SPRING (SMALLER DIAMETER FACES UP) AND SPRING CUP UNDER SPRING

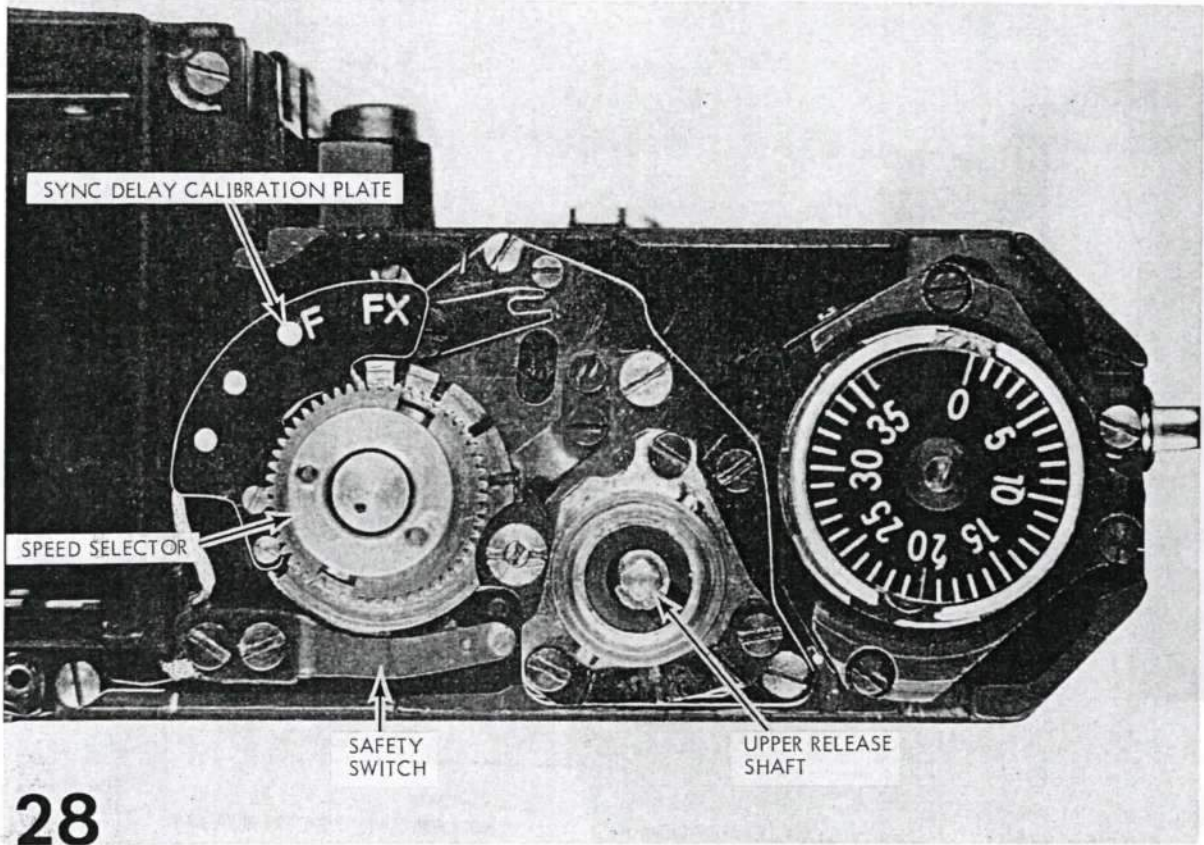
2 LIFT OFF SYNC COLLAR





27

- 1 REMOVE SCREW
- 2 UNSCREW RETAINING RING
- 3 LIFT OFF LEFT TOP COVER PLATE



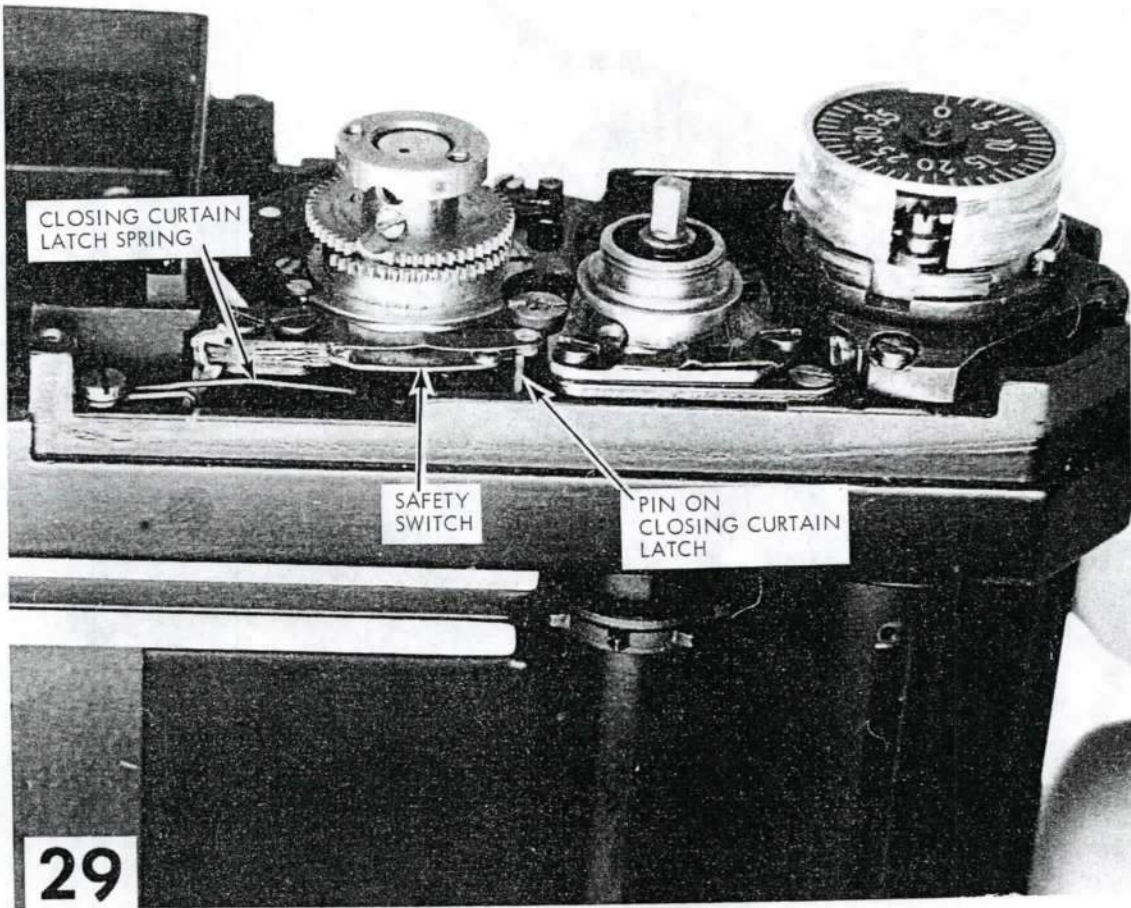
SYNC DELAY CALIBRATION PLATE

SPEED SELECTOR

SAFETY SWITCH

UPPER RELEASE SHAFT

28

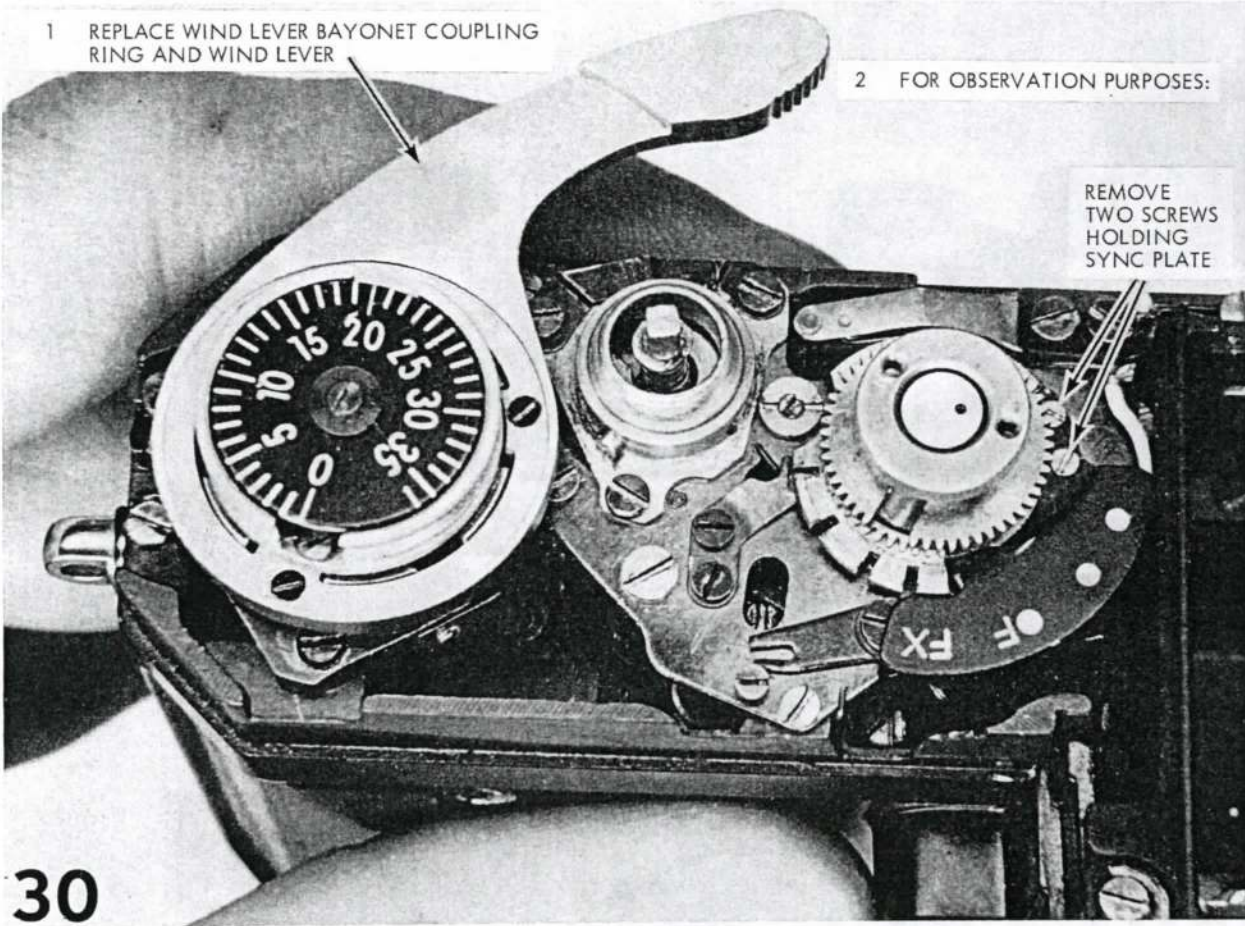


29

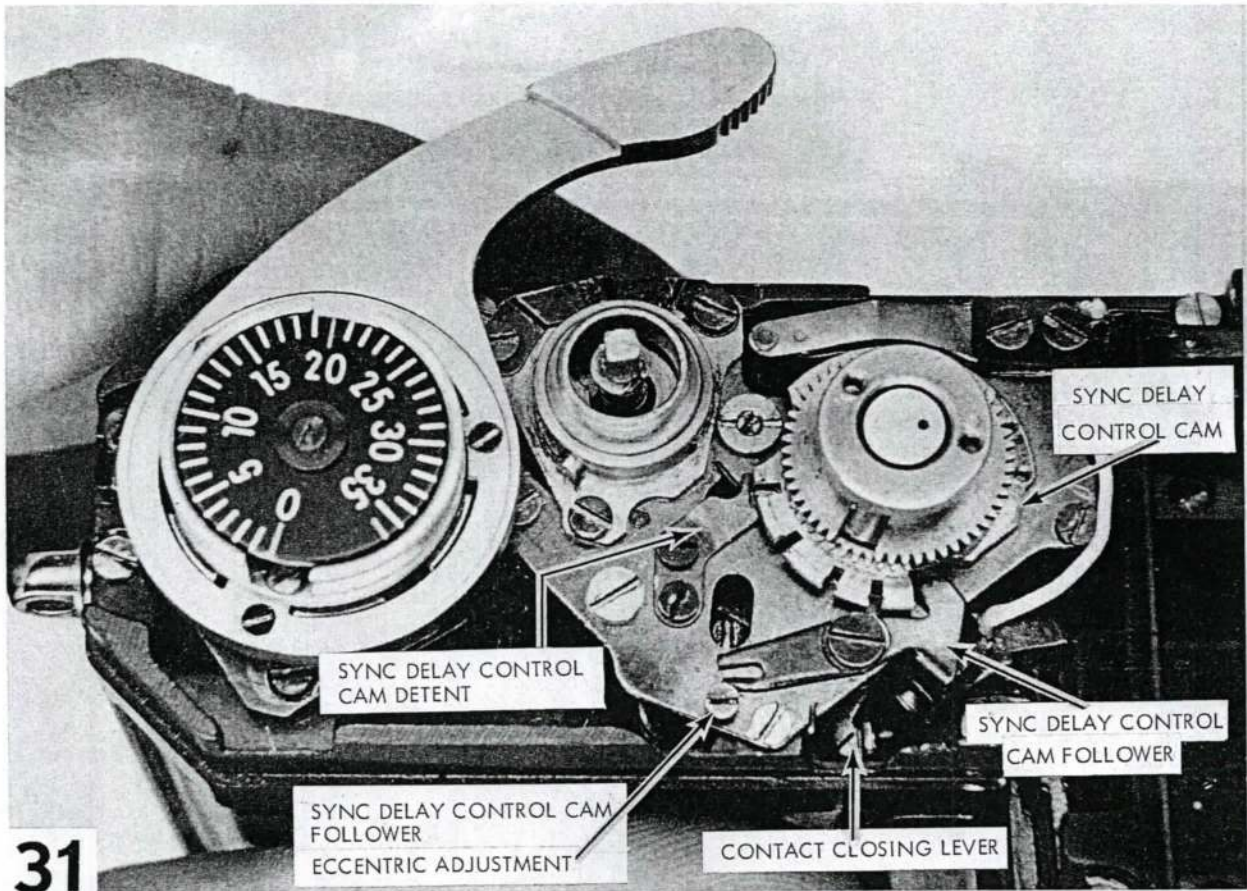
1 REPLACE WIND LEVER BAYONET COUPLING RING AND WIND LEVER

2 FOR OBSERVATION PURPOSES:

REMOVE  
TWO SCREWS  
HOLDING  
SYNC PLATE



30



31

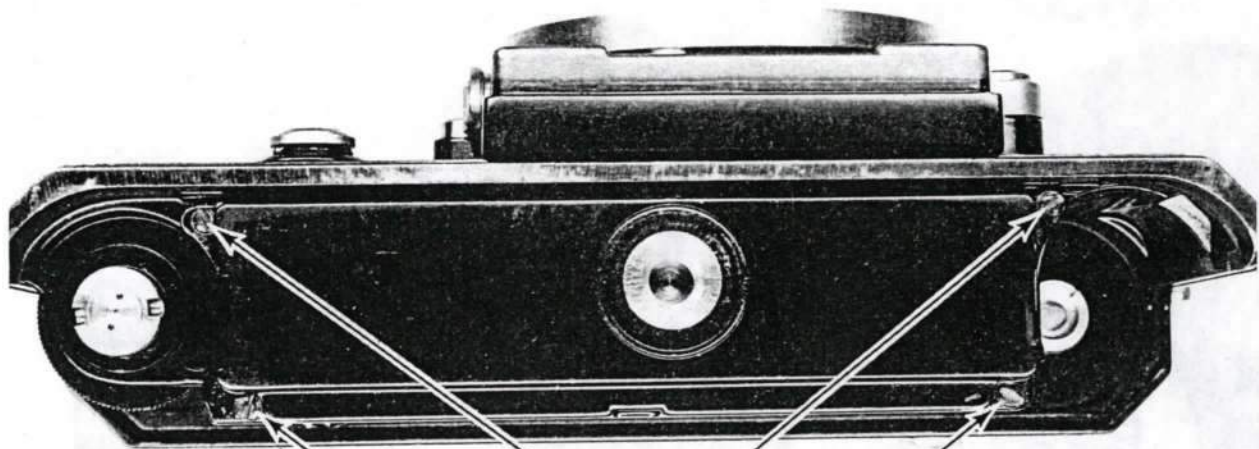
SYNC DELAY CONTROL  
CAM DETENT

SYNC DELAY CONTROL CAM  
FOLLOWER  
ECCENTRIC ADJUSTMENT

CONTACT CLOSING LEVER

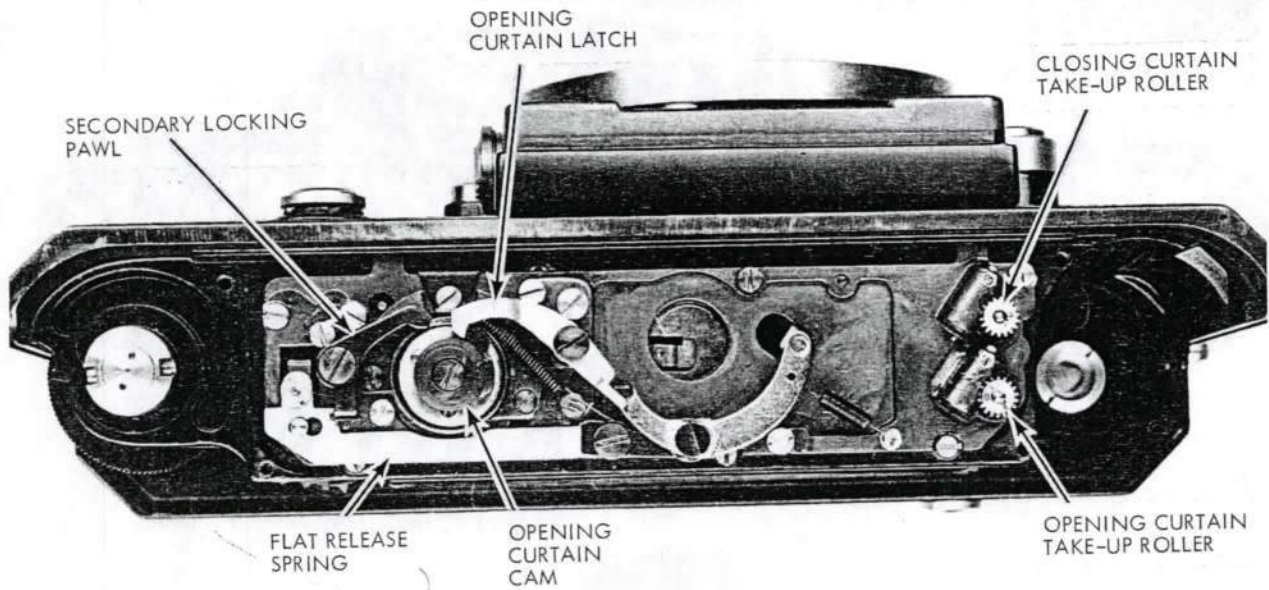
SYNC DELAY  
CONTROL CAM

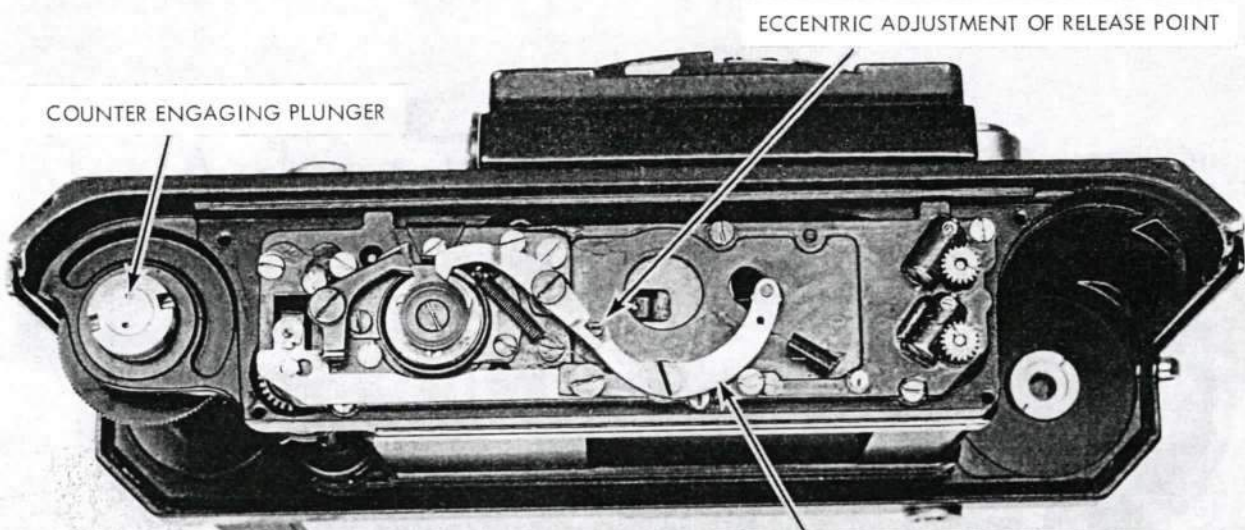
SYNC DELAY CONTROL  
CAM FOLLOWER



REMOVE FOUR BOTTOM COVER PLATE SCREWS  
AND LIFT OFF BOTTOM COVER PLATE

**32**





COUNTER ENGAGING PLUNGER

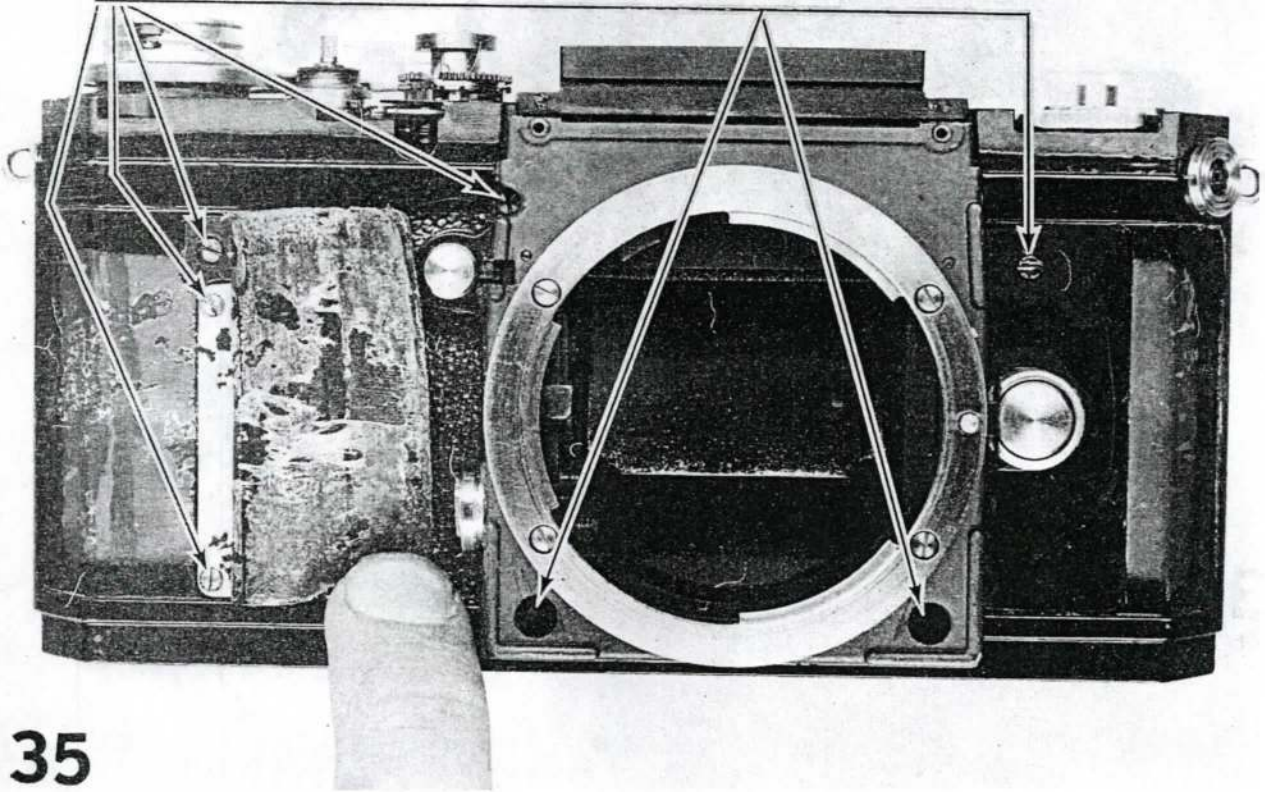
ECCENTRIC ADJUSTMENT OF RELEASE POINT

LOWER OPENING CURTAIN LATCH LINK

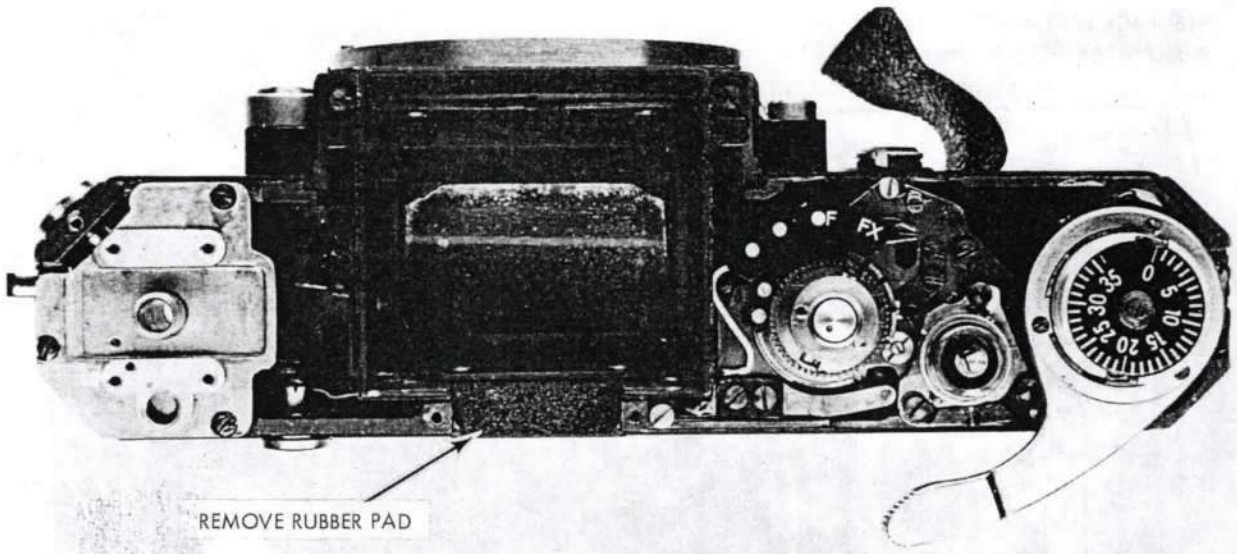
SHUTTER COCKED

34

- 1 PEEL BACK LEATHERETTE ON LEFT SIDE
- 2 REMOVE LEATHERETTE ON RIGHT SIDE
- 3 NOTE RESPECTIVE POSITIONS OF INDICATED SCREWS DURING REMOVAL



35

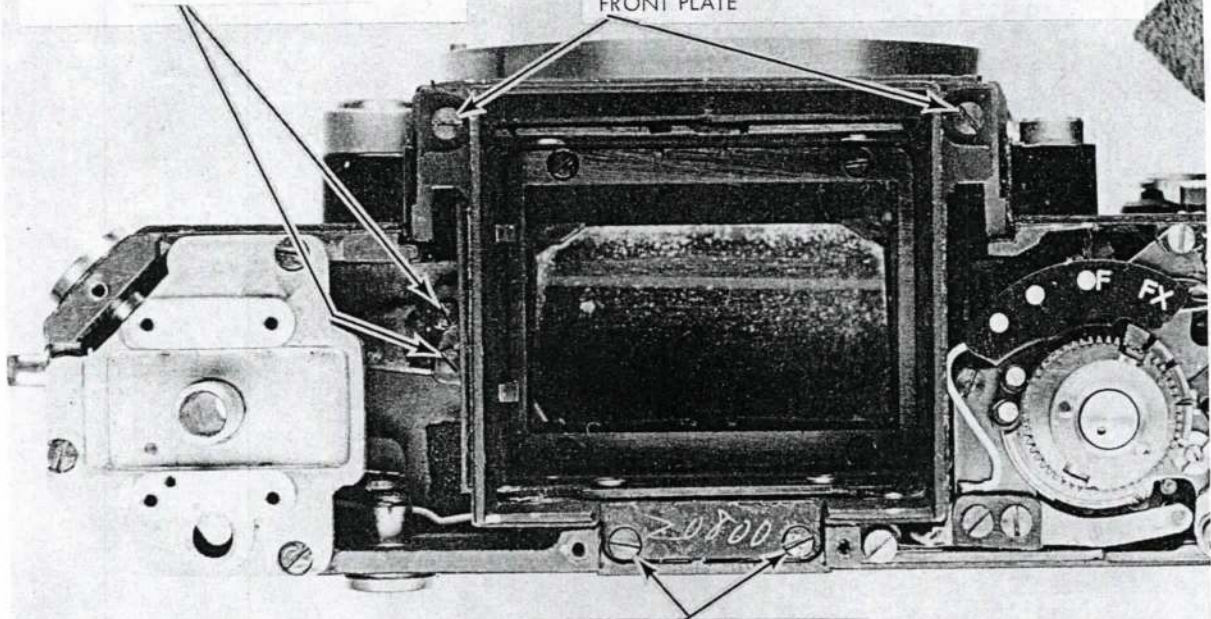


REMOVE RUBBER PAD

36

1 REMOVE TWO SCREWS AND LIFT  
OUT LOCKING SLIDE LINK

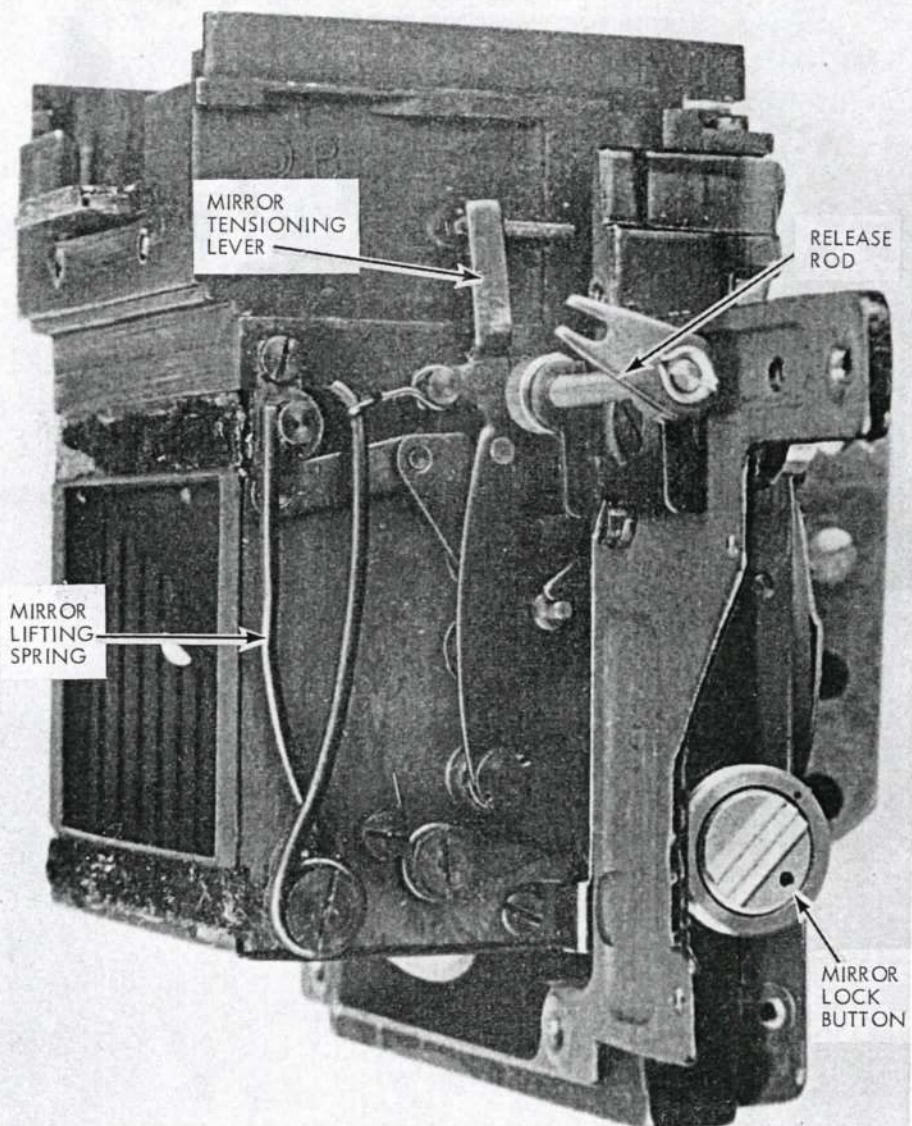
DO NOT REMOVE THESE TWO SCREWS UNLESS YOU  
WISH TO SEPARATE MIRROR CAGE FROM  
FRONT PLATE



2 REMOVE TWO SCREWS

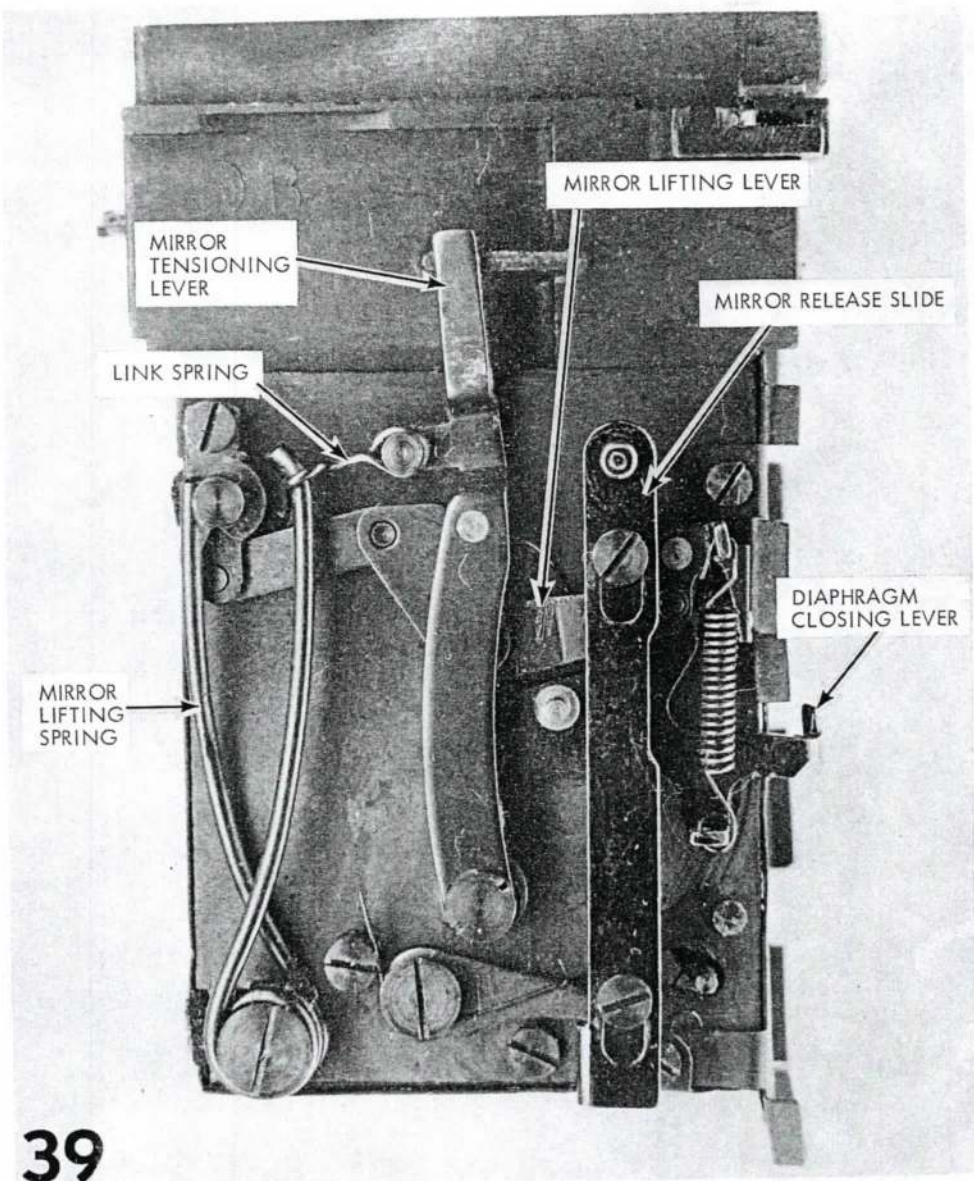
3 LIFT OUT FRONT PLATE AND MIRROR CAGE  
AS ONE UNIT

DELAYED-ACTION MECHANISM HAS BEEN REMOVED TO ALLOW CLEARER VISIBILITY OF MIRROR PARTS

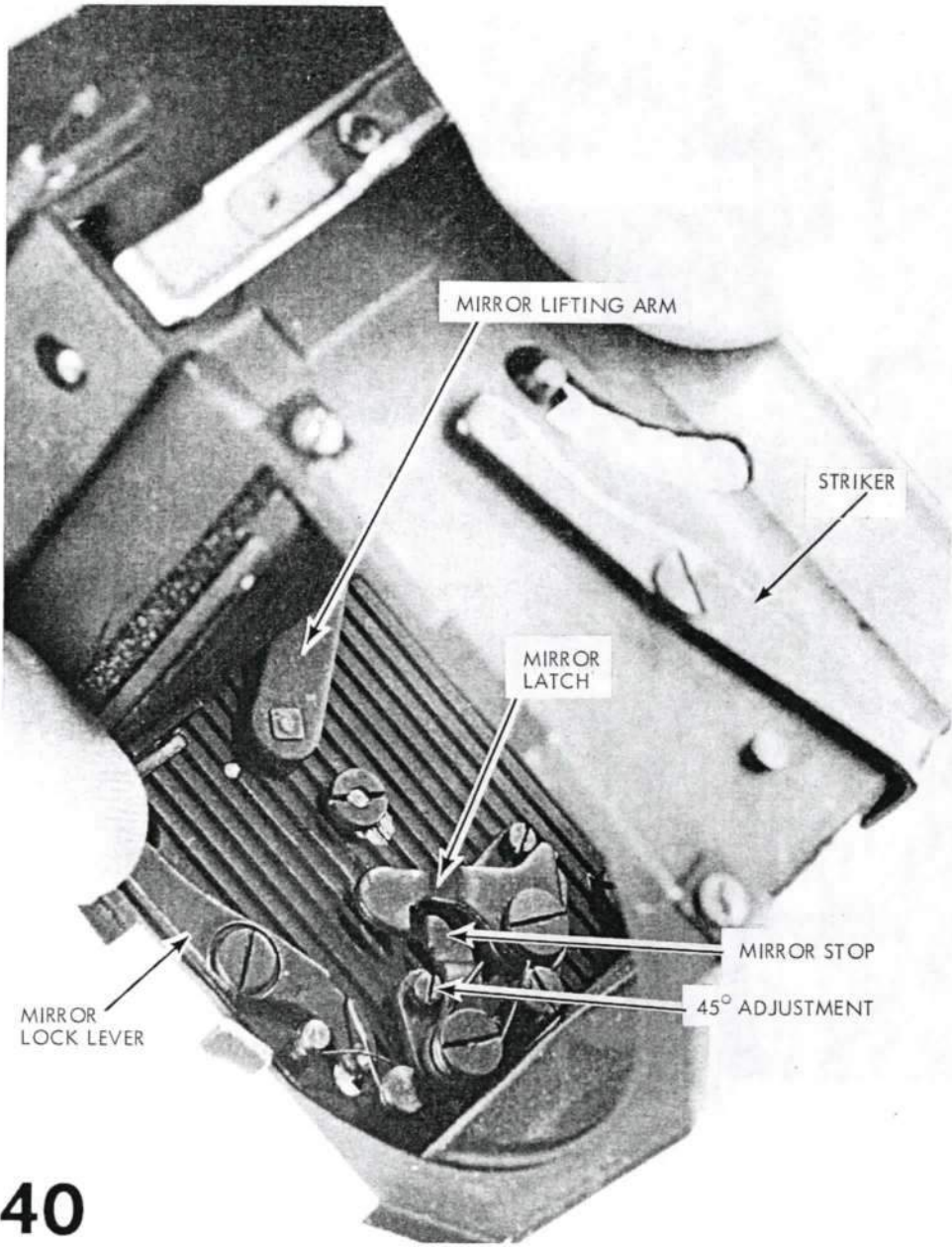


**38**

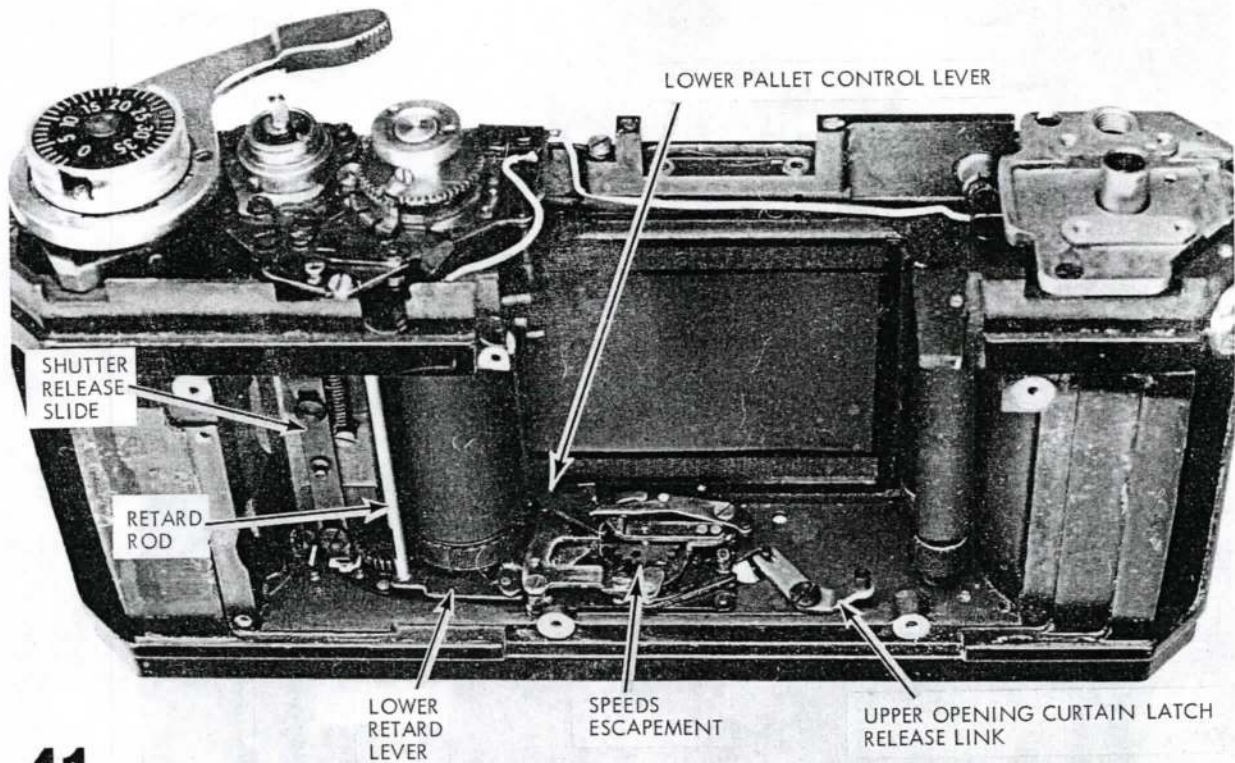
TO SEPARATE THE MIRROR CAGE FROM THE FRONT PLATE, REMOVE THE TWO REMAINING SCREWS AT THE TOP OF THE MIRROR CAGE (FIGURE 37)



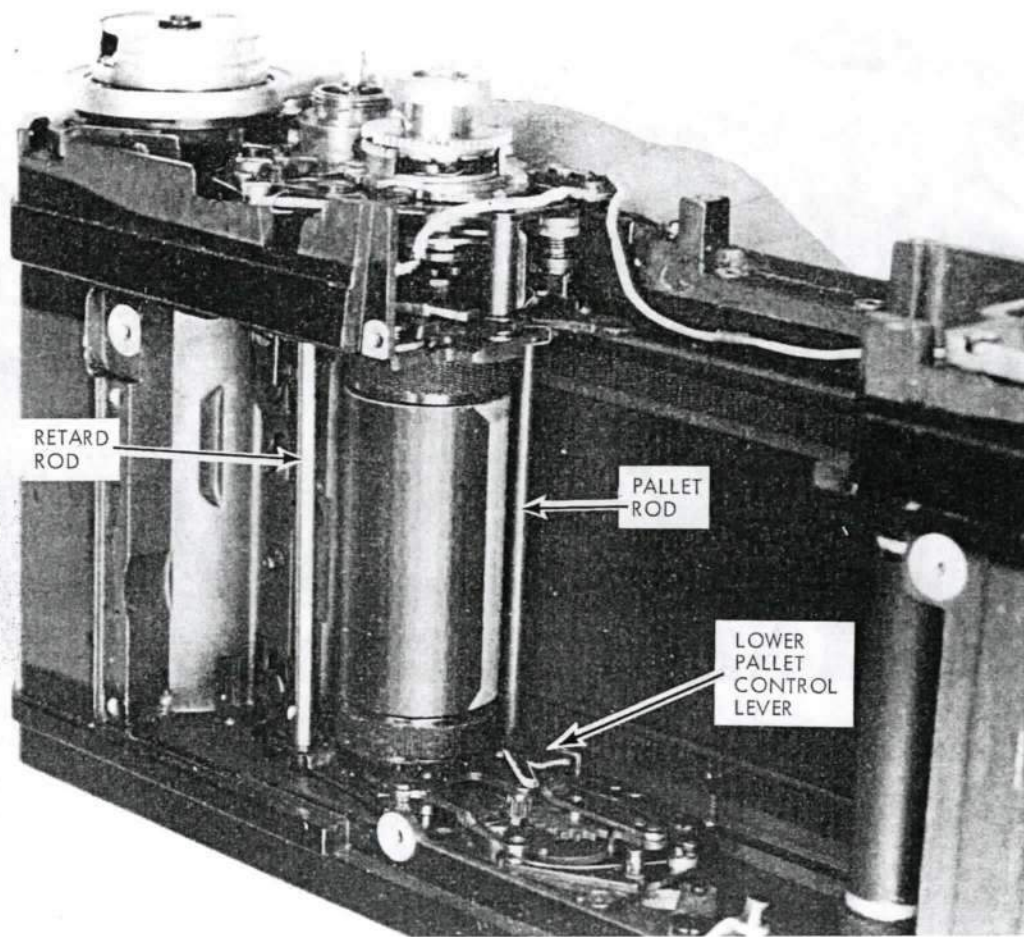
39



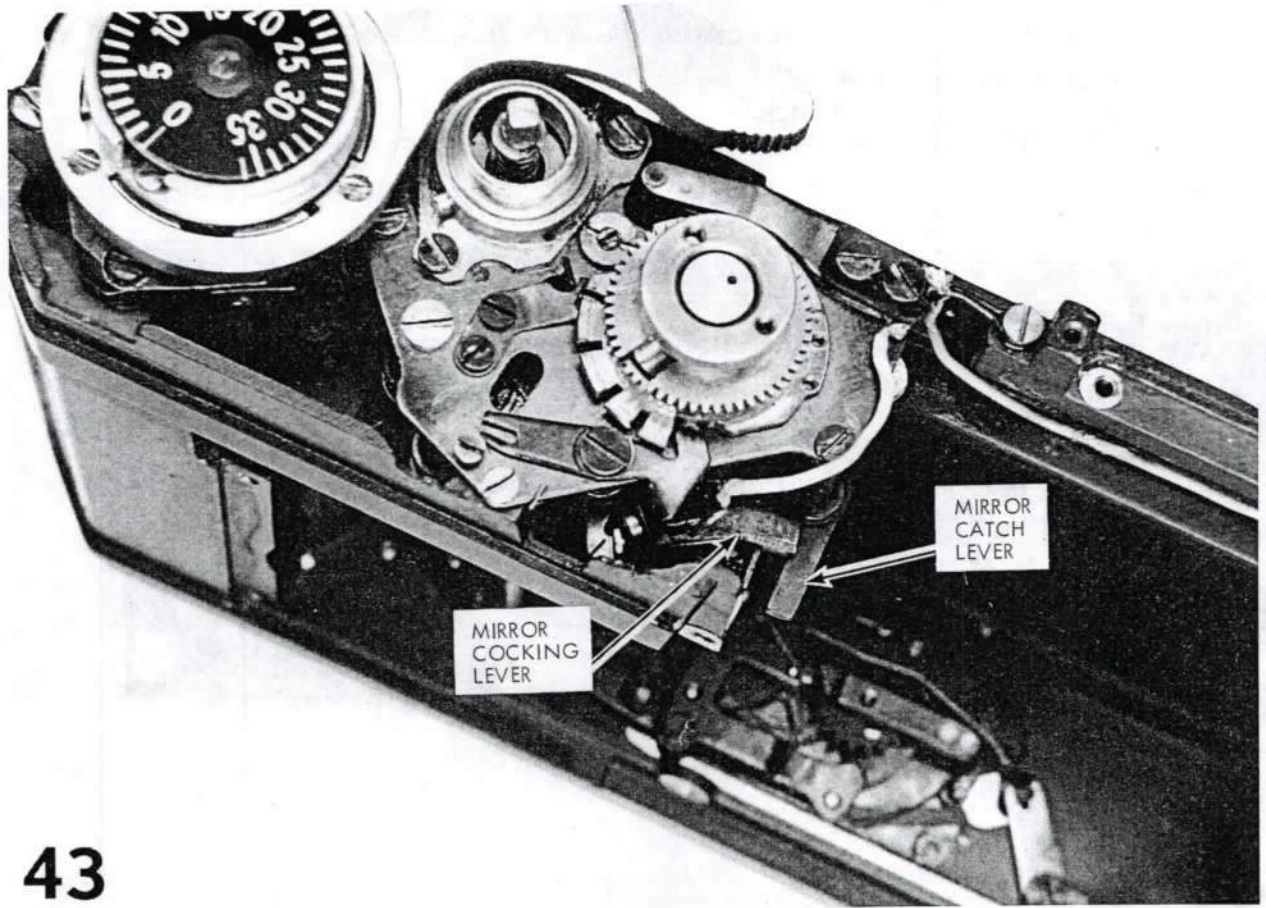
40



41



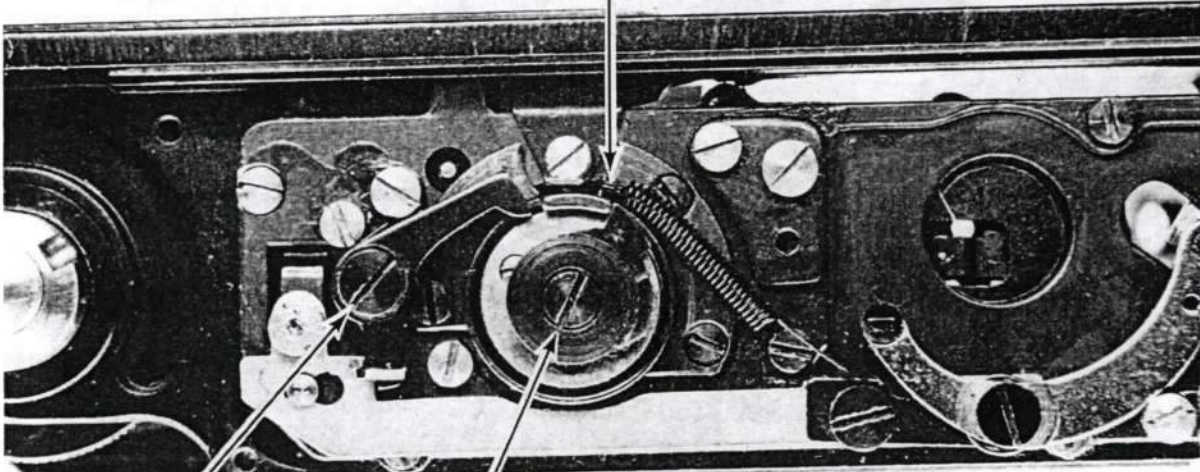
42



43

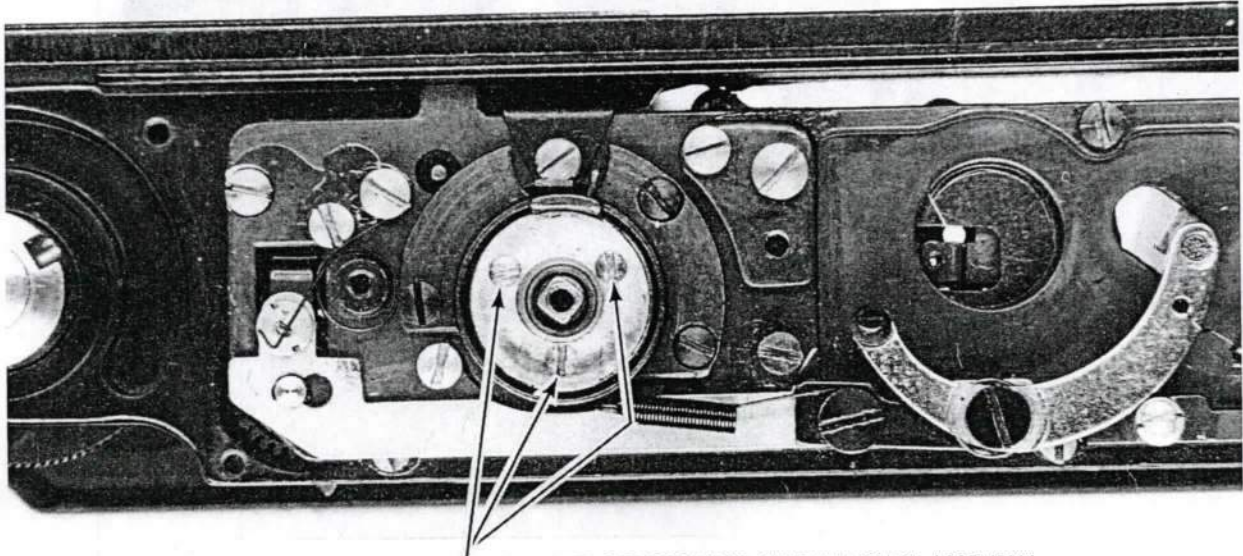
TO DISASSEMBLE BRAKE MECHANISM FOR OBSERVATION, CLEANING, OR MAINTENANCE:

- 1 LET OFF CURTAIN TENSIONS
- 2 REMOVE OPENING CURTAIN LATCH
- 3 DISCONNECT FRONT BRAKE SPRING FROM END OF OPENING CURTAIN BRAKE SPRING



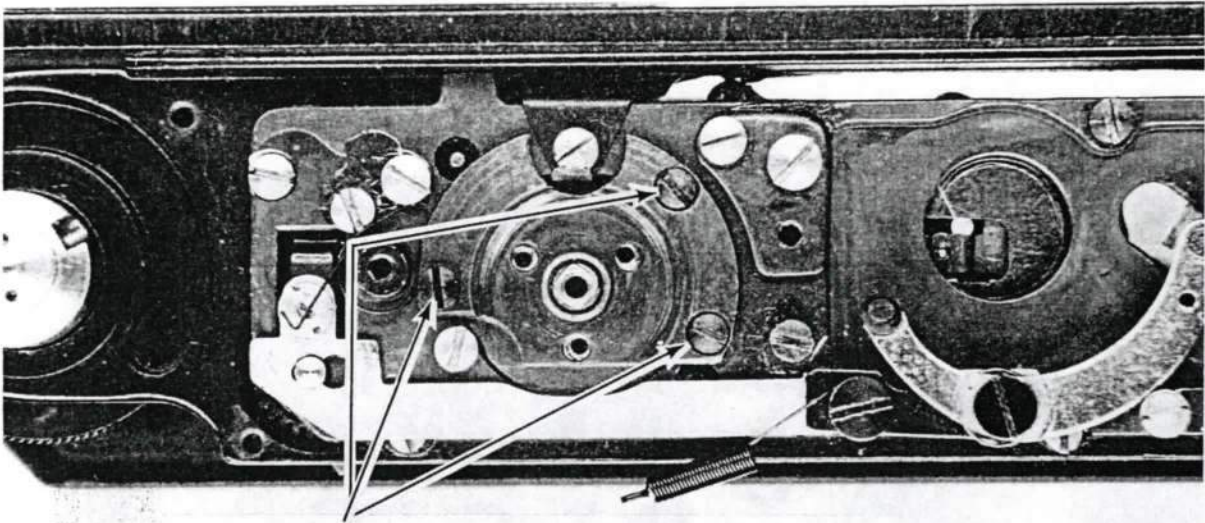
4 REMOVE SECONDARY  
LOCKING PAWL

5 REMOVE OPENING CURTAIN CAM



REMOVE THREE SCREWS AND LIFT OFF OPENING CURTAIN BRAKE ASSEMBLY

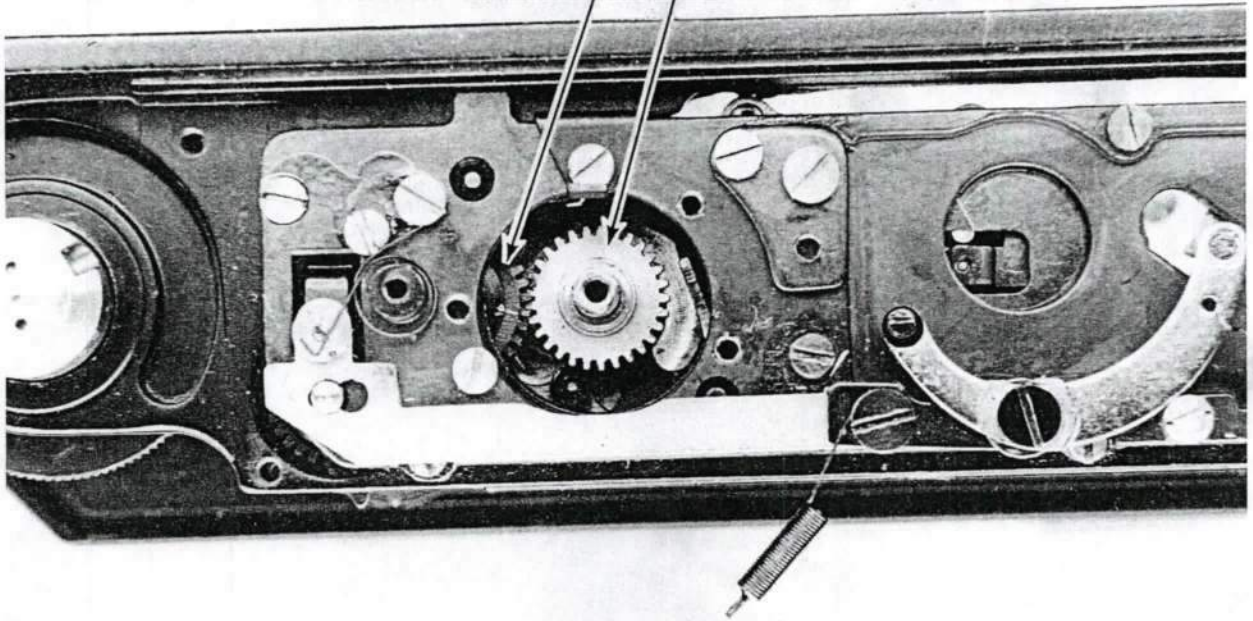
45



- 1 REMOVE THREE SCREWS AND LIFT OFF BRAKE COVER PLATE
- 2 LIFT OUT CLOSING CURTAIN BRAKE ASSEMBLY

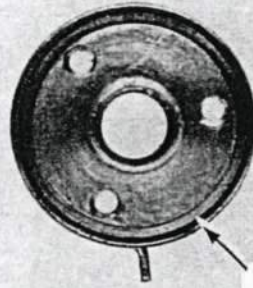
46

SCRIBE TIMING RELATIONSHIP BETWEEN  
CURTAIN WIND IDLER GEAR --- AND DRUM GEAR



47

CLOSING CURTAIN BRAKE RING

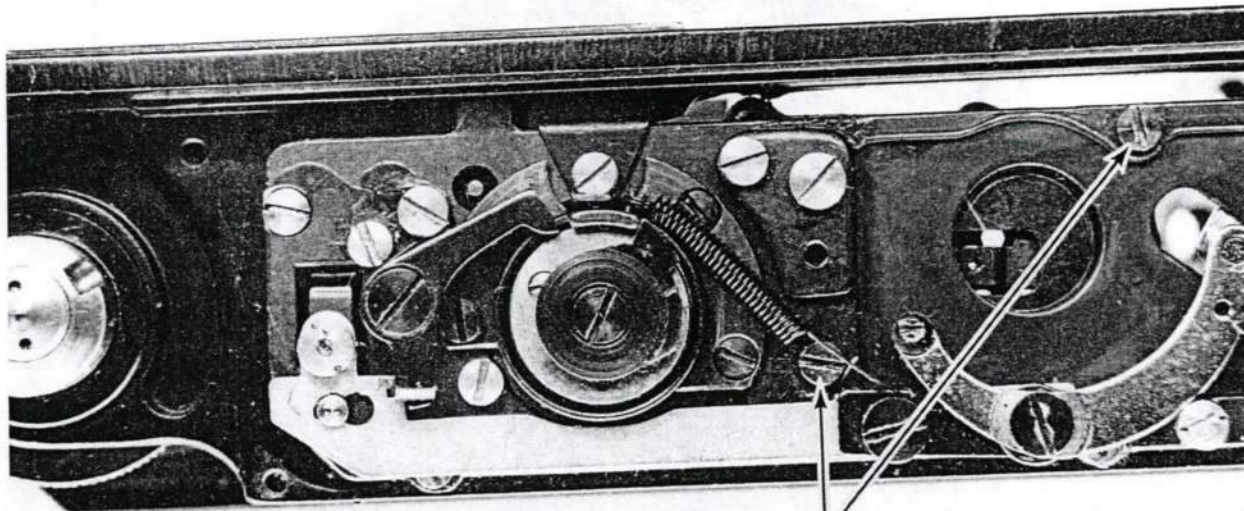


CLOSING  
CURTAIN  
BRAKE SPRING  
AND DRUM

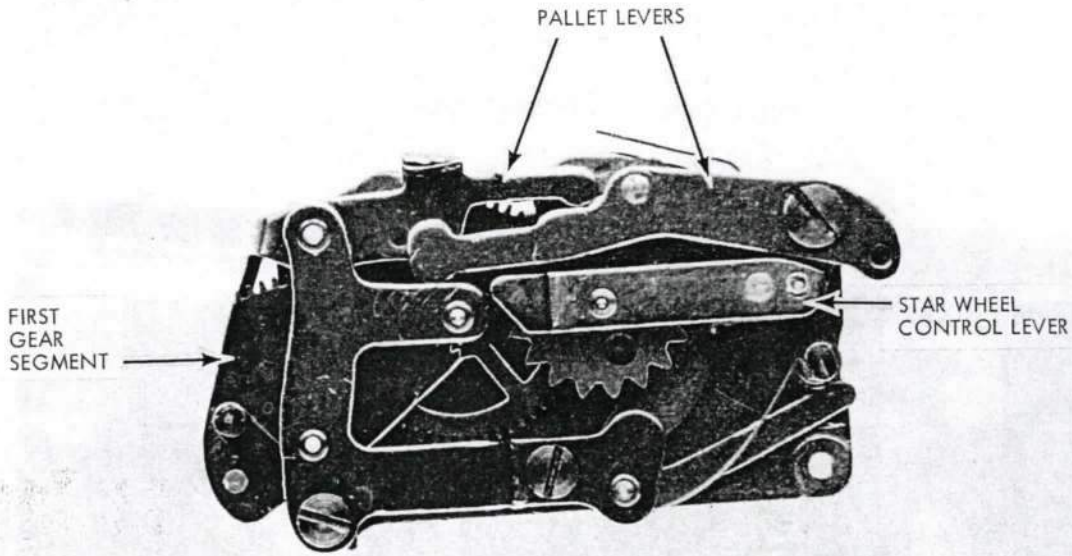
48

CLOSING CURTAIN BRAKE ASSEMBLY

1 SCRIBE POSITION OF SPEEDS ESCAPEMENT

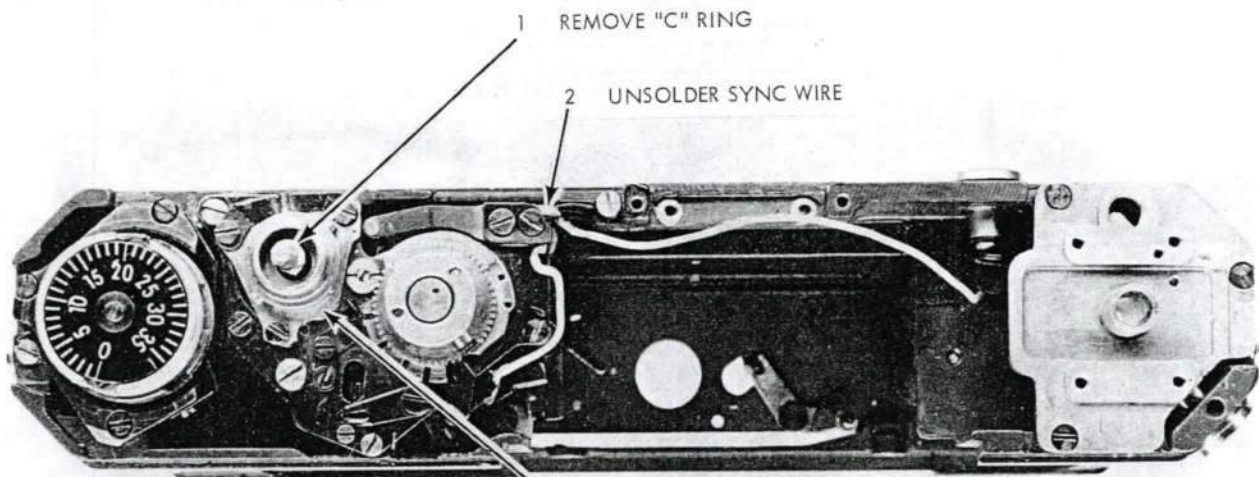


2 REMOVE SPEEDS ESCAPEMENT  
RETAINING SCREWS



50

SPEEDS ESCAPEMENT

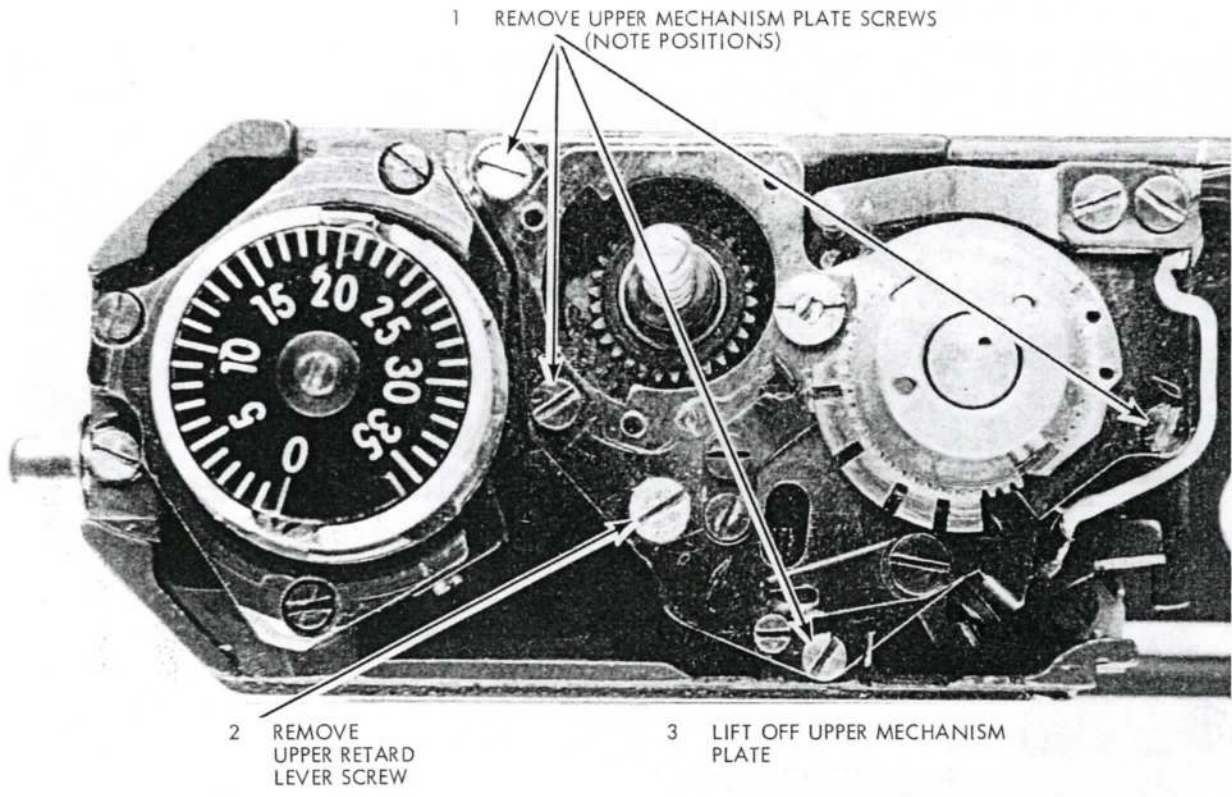


1 REMOVE "C" RING

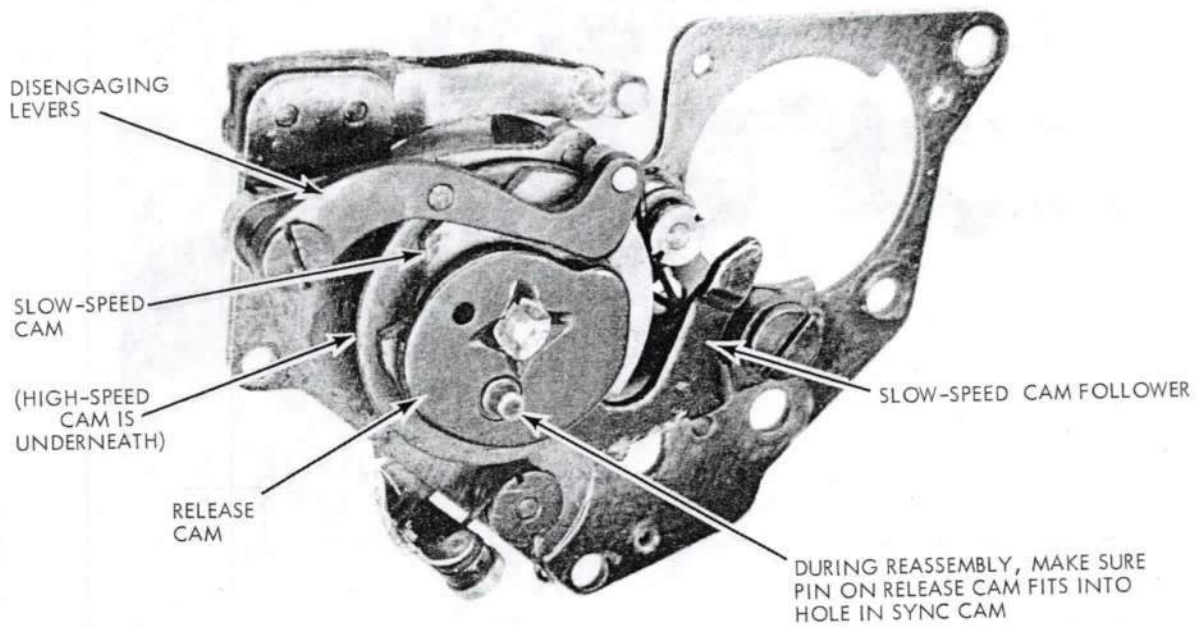
2 UNSOLDER SYNC WIRE

- 3 SCRIBE POSITION OF RELEASE SUPPORT PLATE WITH REFERENCE TO UPPER MECHANISM PLATE
- 4 REMOVE THREE SCREWS HOLDING RELEASE SUPPORT PLATE (TWO SCREWS ALSO HOLD A/R COLLAR DETENT)
- 5 LIFT OFF RELEASE SUPPORT PLATE

51

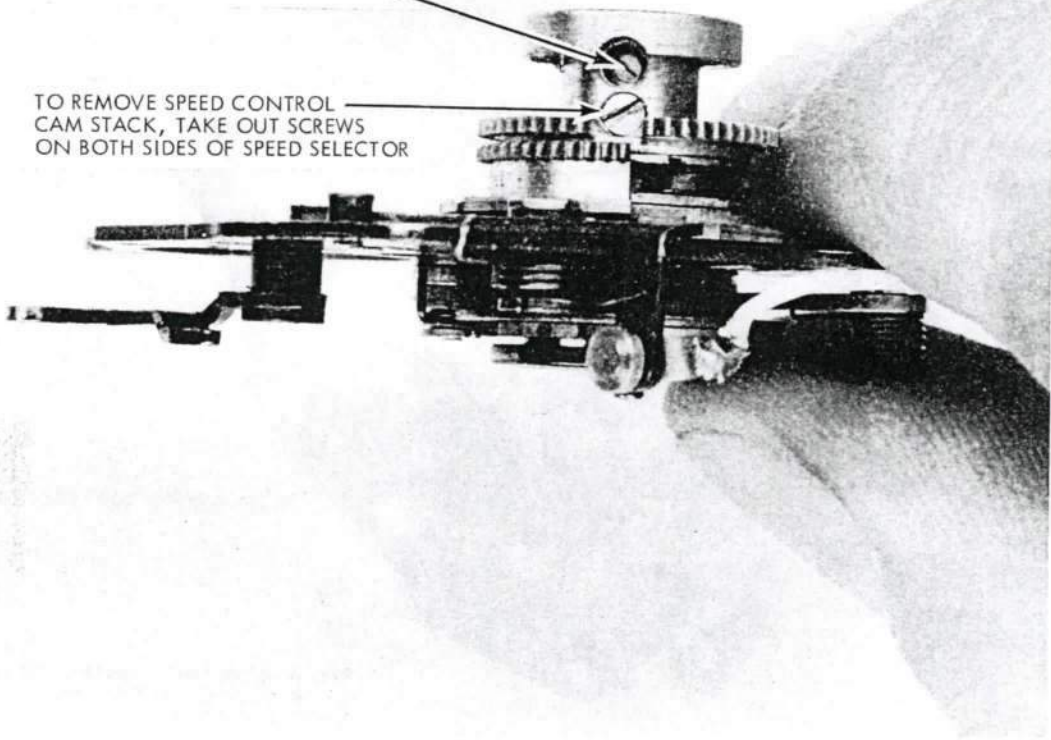


BOTTOM OF UPPER MECHANISM PLATE

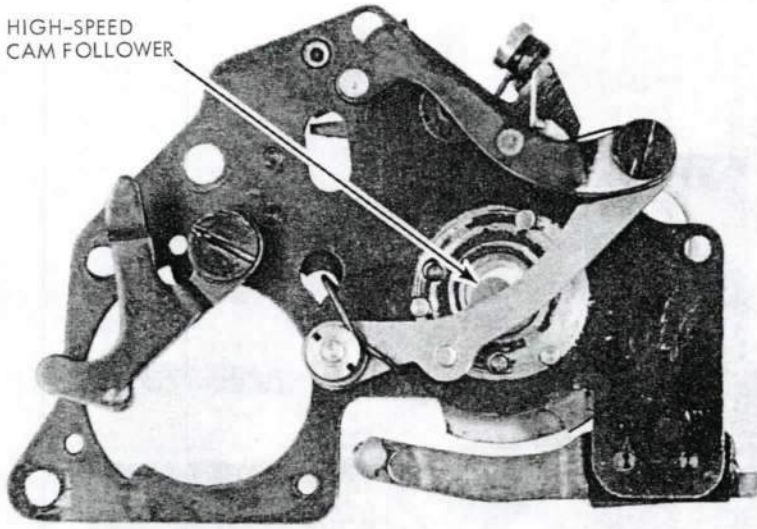


TO REMOVE RELEASE CAM,  
TAKE OUT THIS SCREW

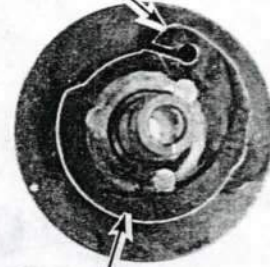
TO REMOVE SPEED CONTROL  
CAM STACK, TAKE OUT SCREWS  
ON BOTH SIDES OF SPEED SELECTOR



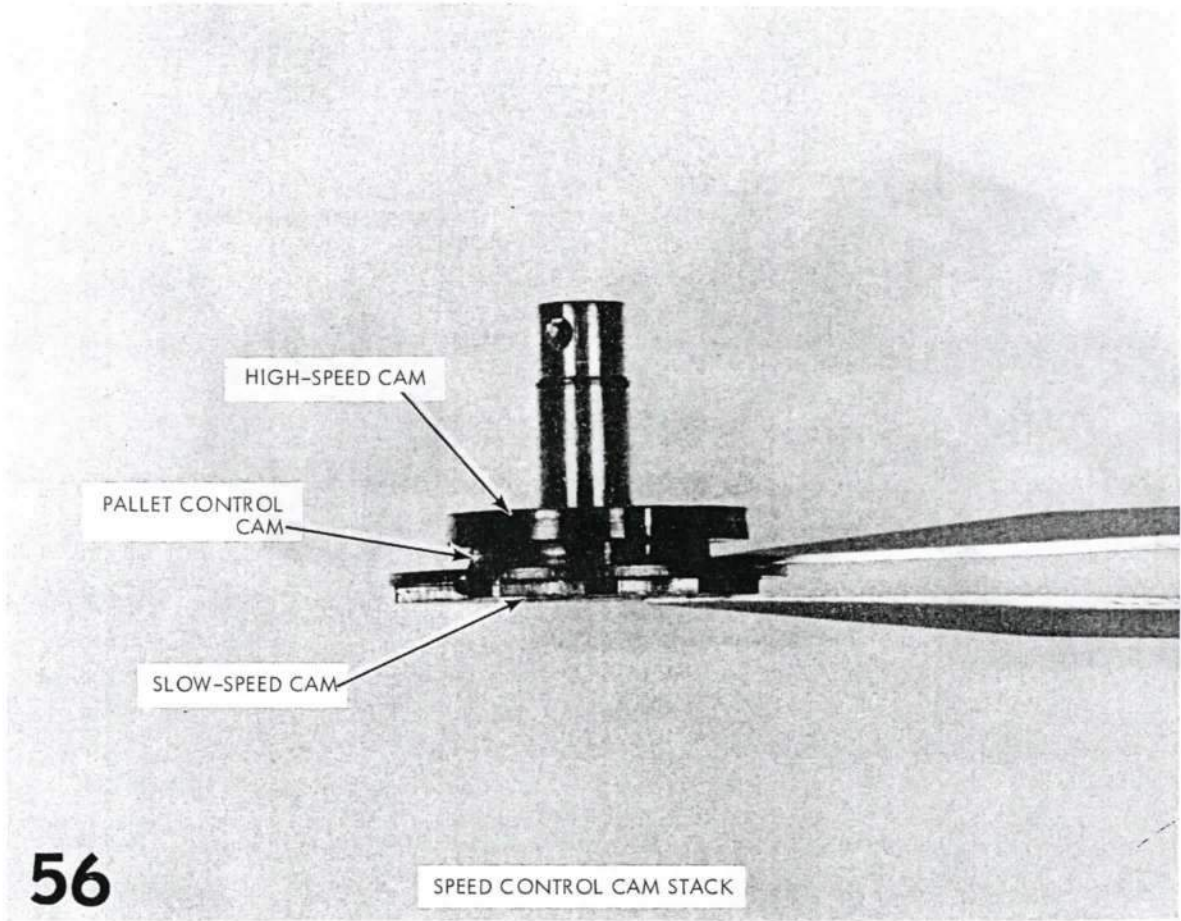
HIGH-SPEED  
CAM FOLLOWER



1/1000 SECOND ADJUSTMENT  
POINT



HIGH-SPEED CAM



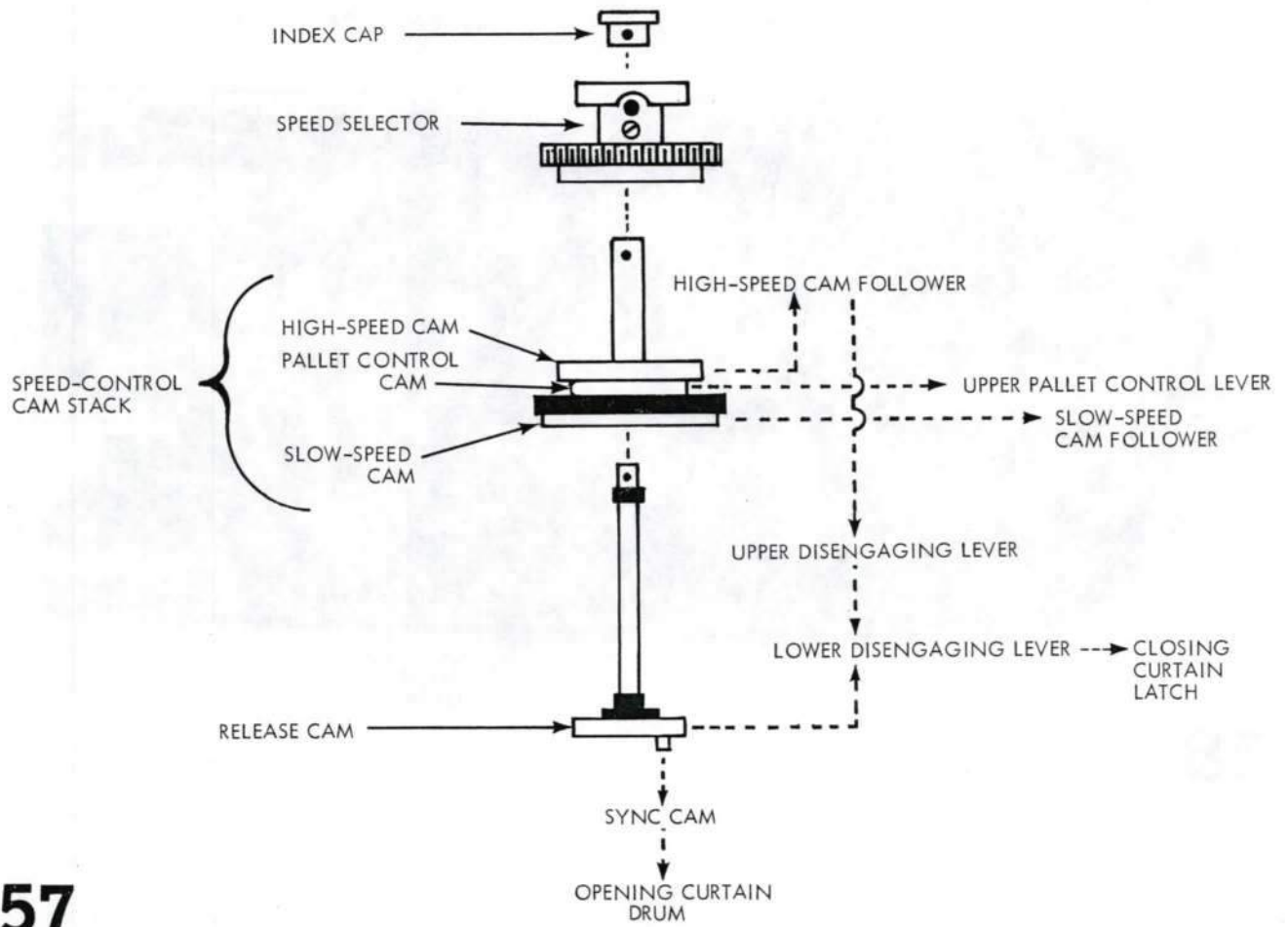
HIGH-SPEED CAM

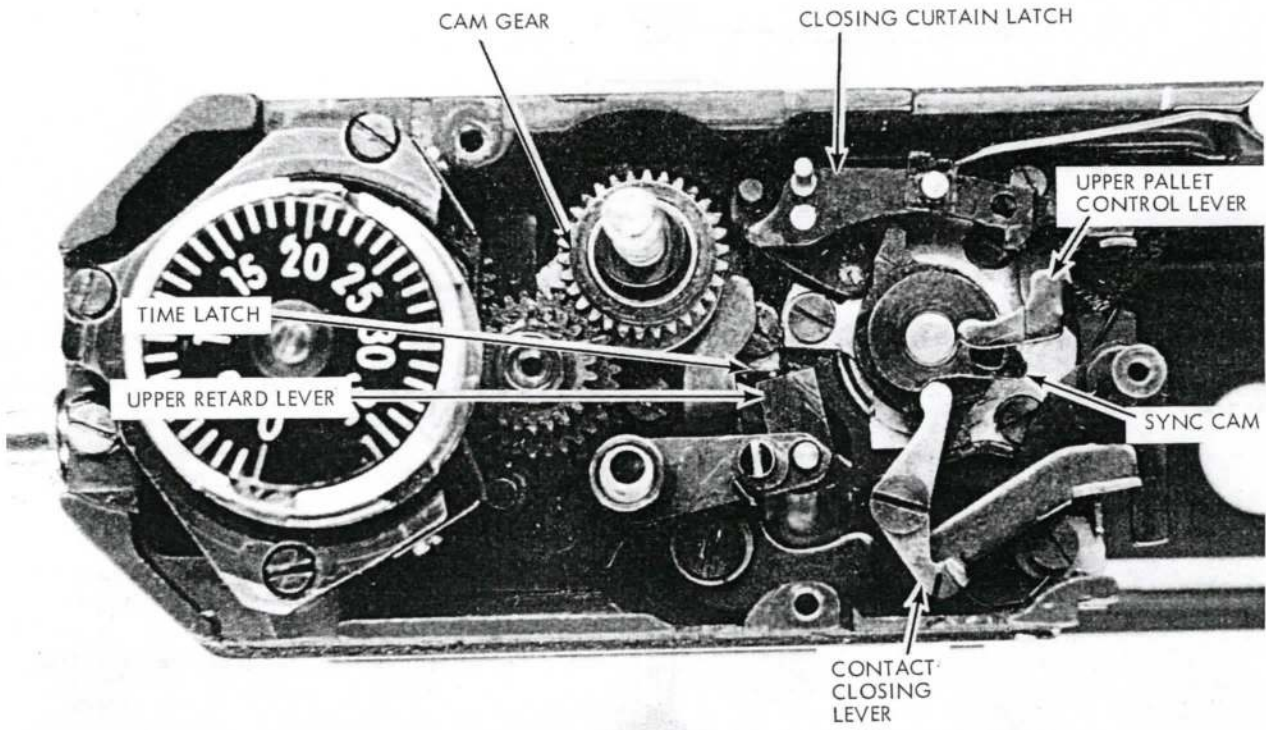
PALLET CONTROL CAM

SLOW-SPEED CAM

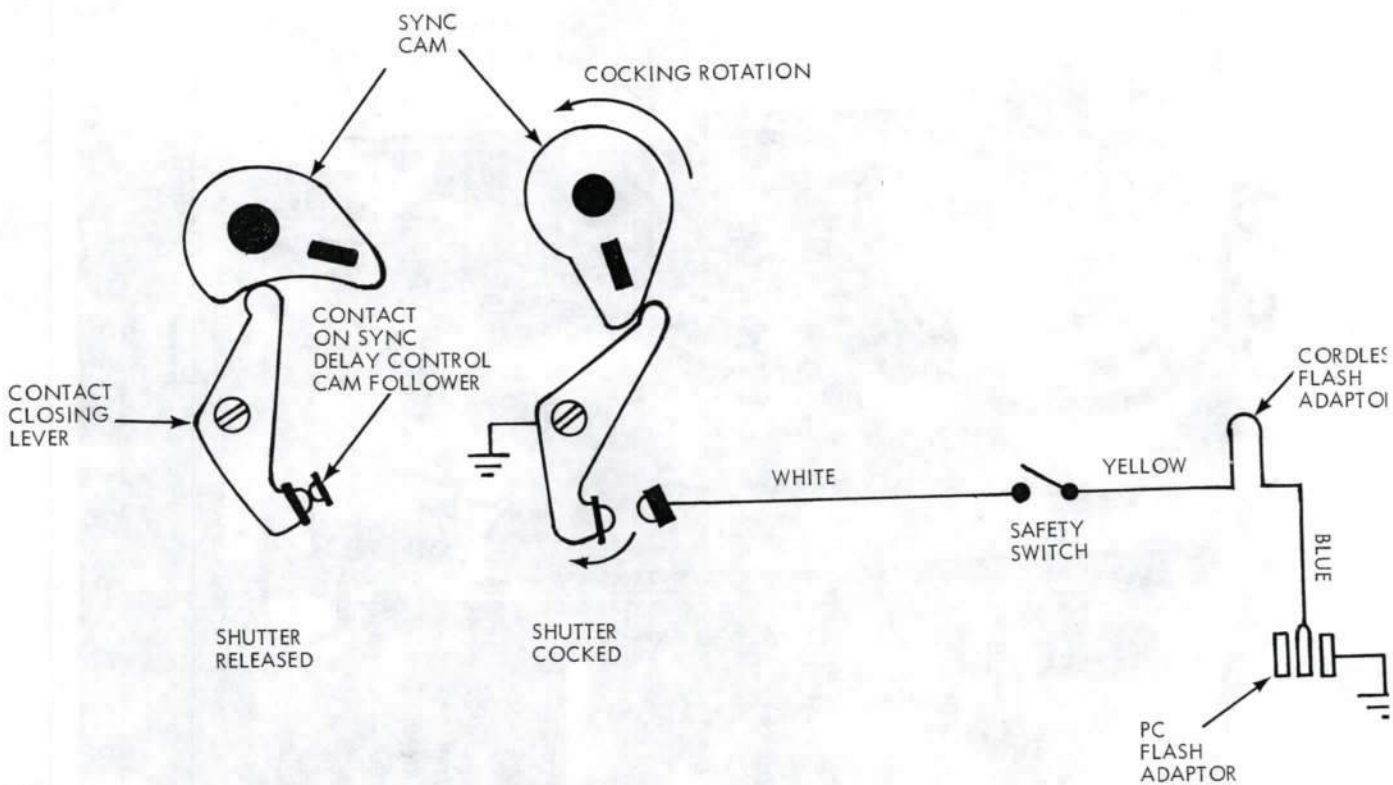
SPEED CONTROL CAM STACK

56

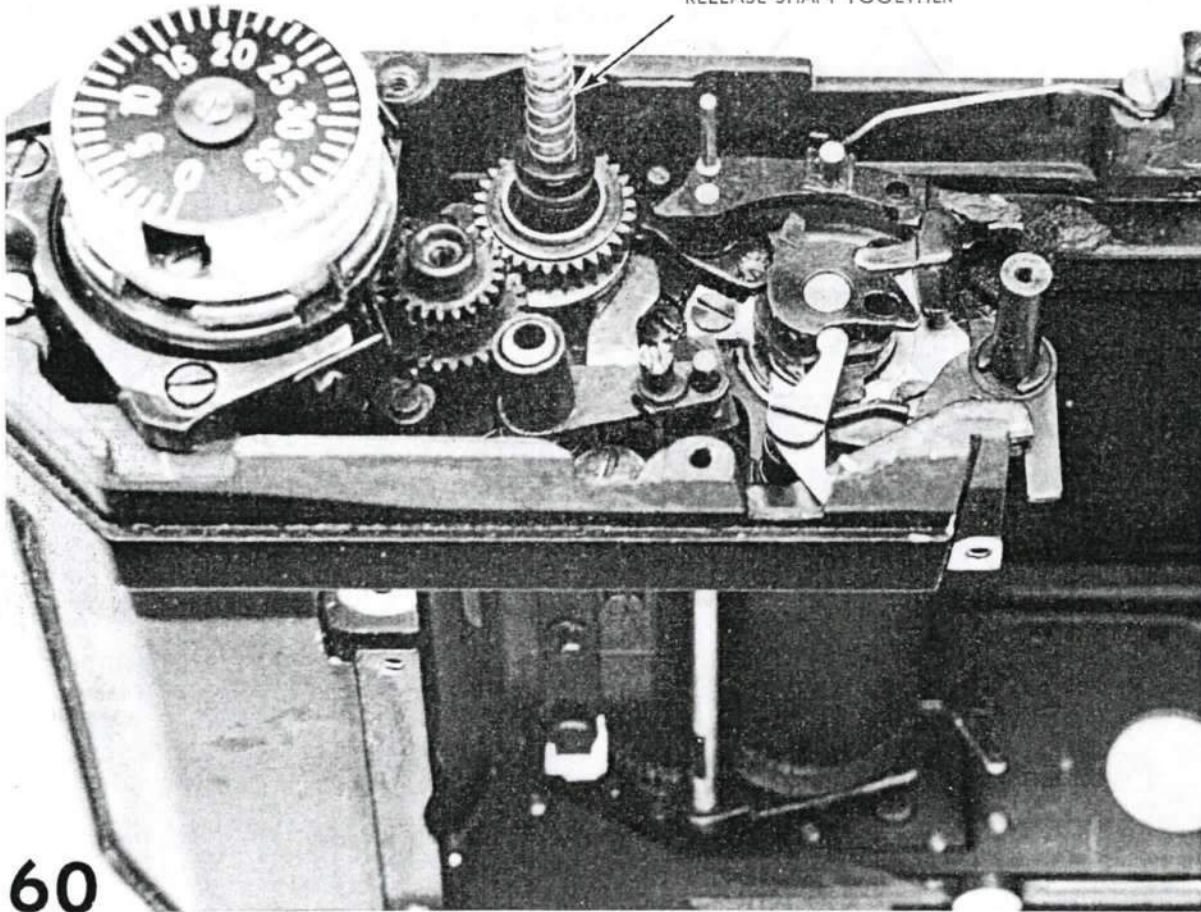




58

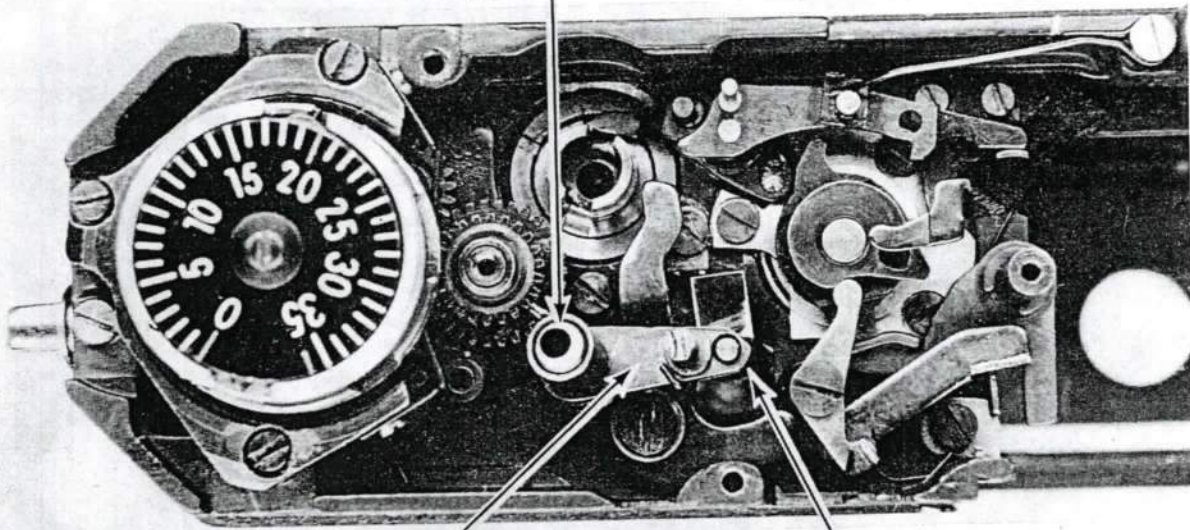


LIFT OUT CAM GEAR AND UPPER  
RELEASE SHAFT TOGETHER



60

UPPER RETARD LEVER ECCENTRIC SHAFT



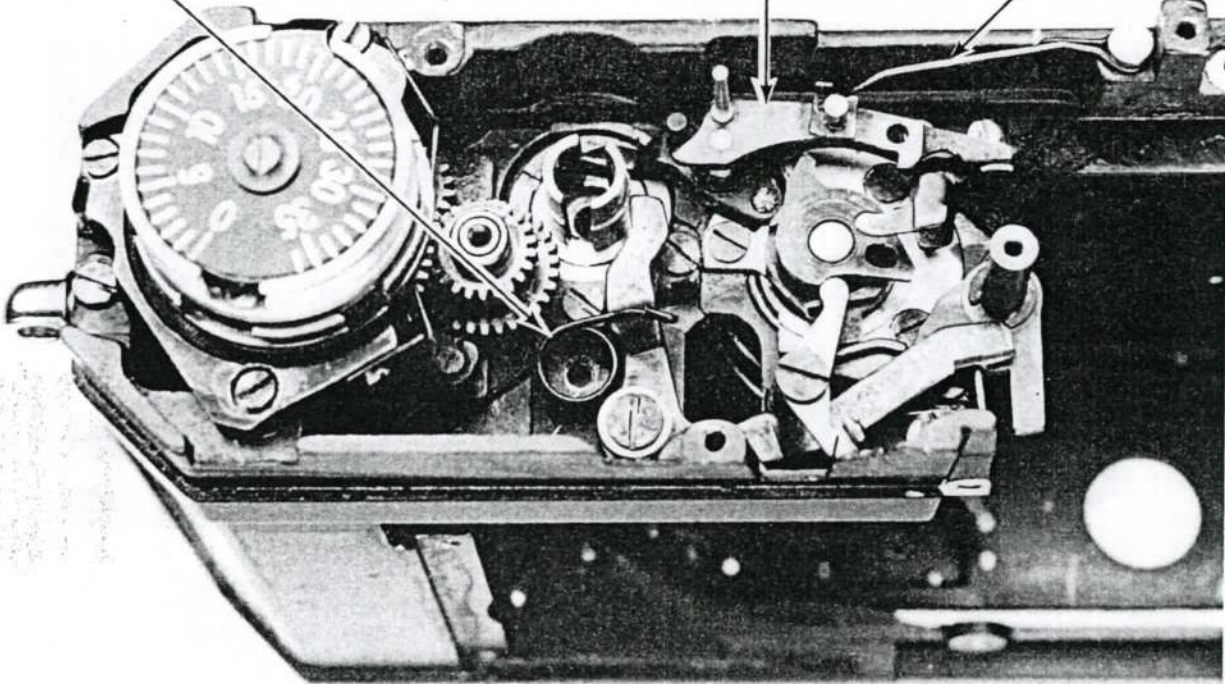
1 DISCONNECT UPPER  
RETARD LEVER SPRING  
AND LIFT OFF UPPER  
RETARD ADJUSTMENT LEVER

2 LIFT OUT RETARD ROD  
(WATCH COMPRESSION  
SPRING AT LOWER END  
OF RETARD ROD)

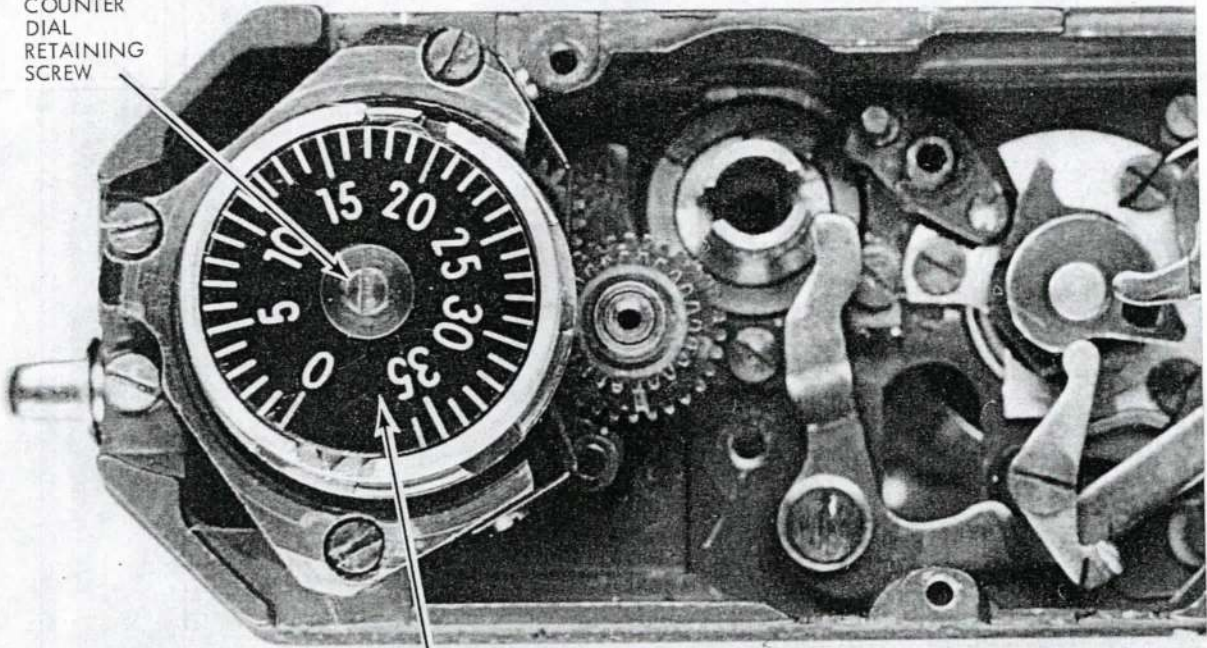
61

1 REMOVE UPPER  
RETARD ADJUSTMENT  
LEVER SPRING

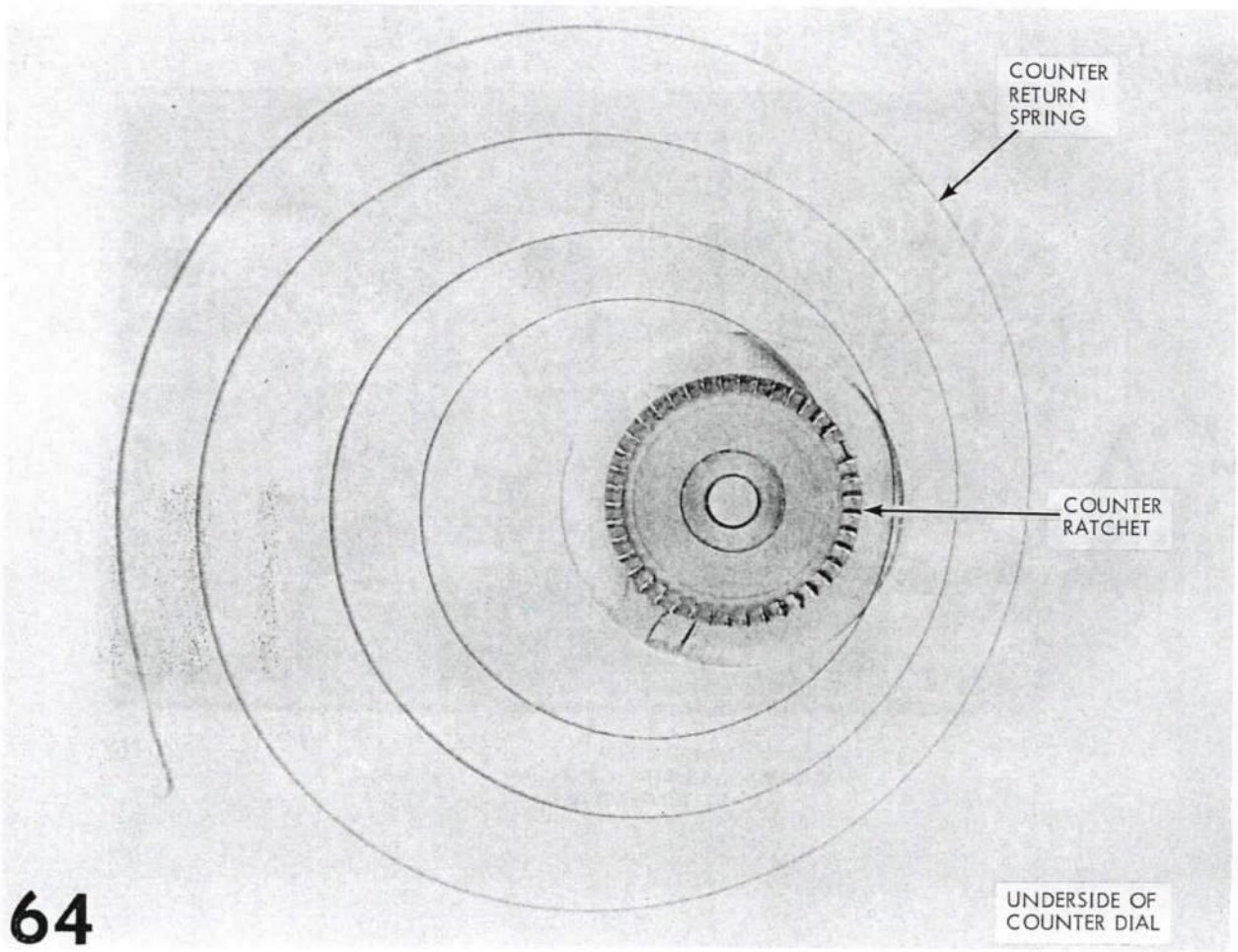
2 DISCONNECT CLOSING CURTAIN LATCH SPRING AND  
LIFT OUT CLOSING CURTAIN LATCH



1 REMOVE  
COUNTER  
DIAL  
RETAINING  
SCREW

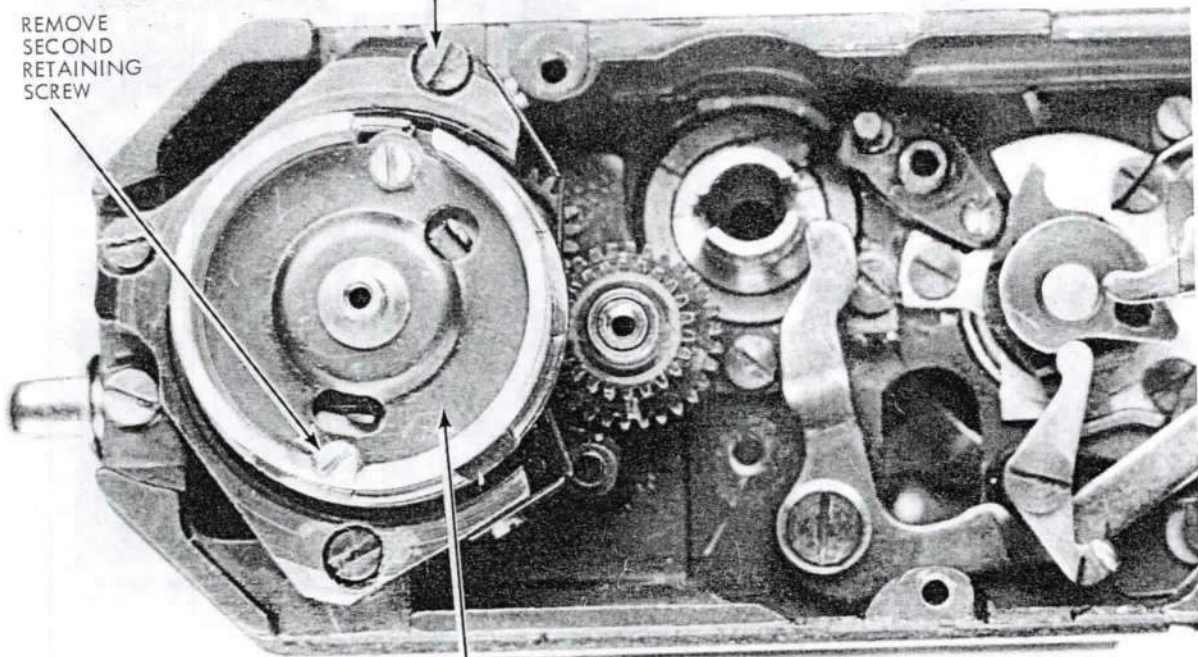


2 LIFT OFF COUNTER DIAL  
(BE CAREFUL OF SPRING TENSION  
ON COUNTER DIAL)



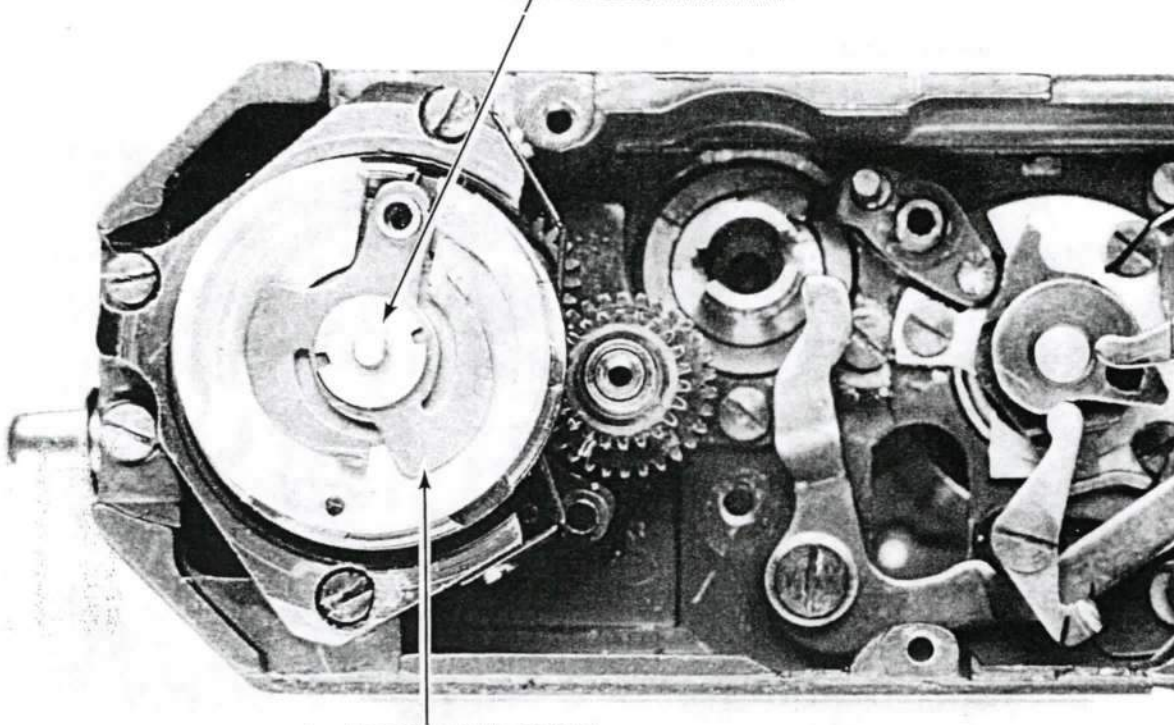
64

- 1 REMOVE LONG-HEAD COUNTER-STOP SCREW
- 2 REMOVE SECOND RETAINING SCREW



- 3 LIFT OFF COUNTER PLATE

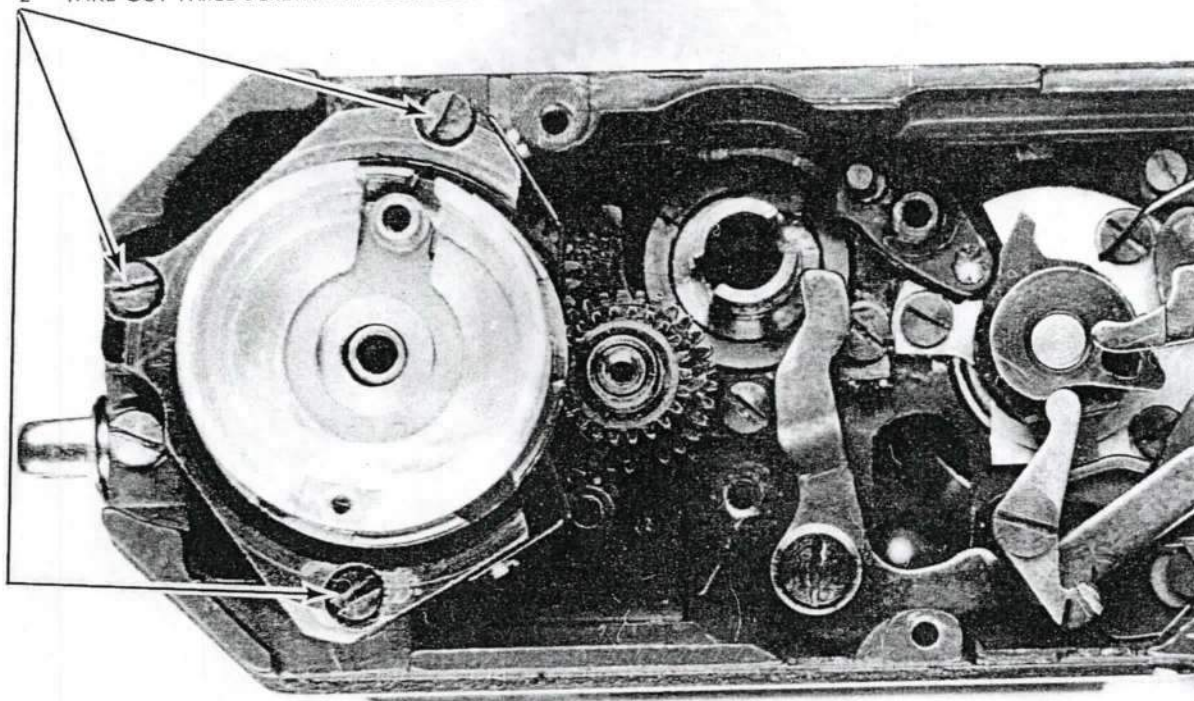
1 UNSCREW LEFT-HAND COUNTER ECCENTRIC SHAFT

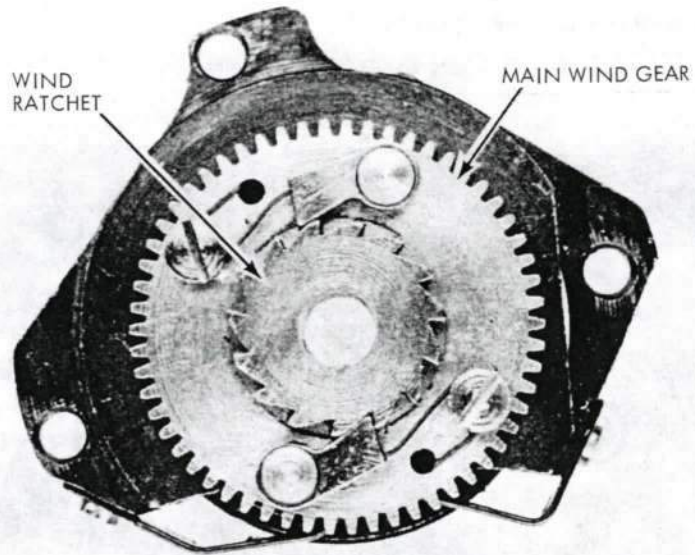


2 LIFT OFF COUNTER PAWL  
(WASHER UNDERNEATH)

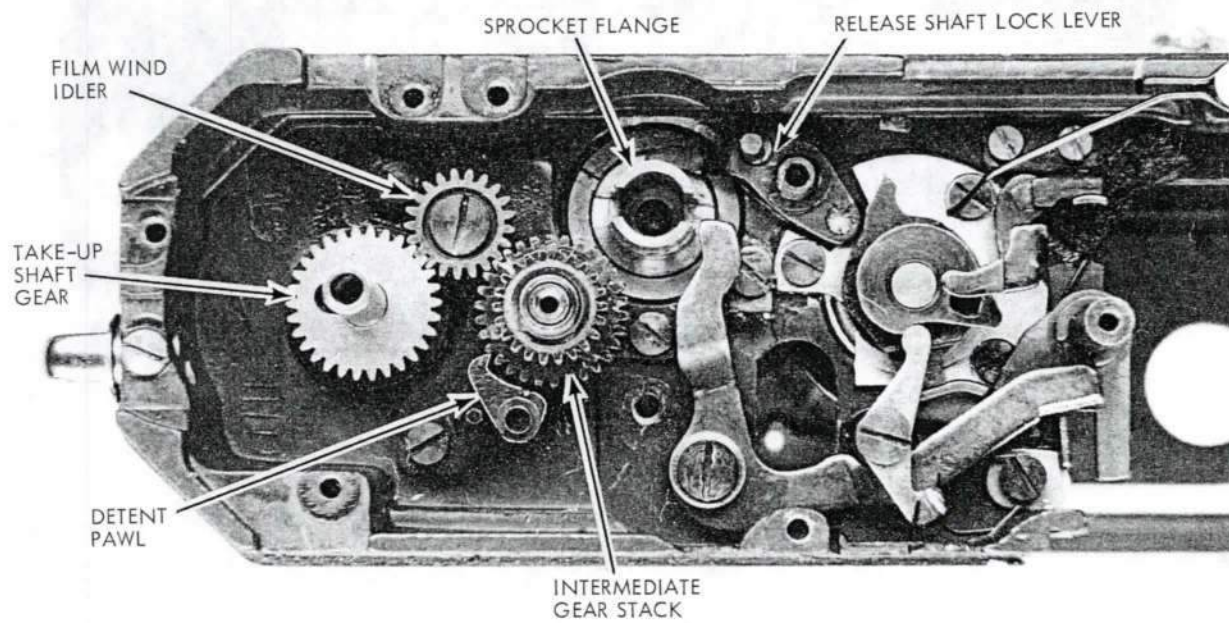
1 SCRIBE POSITION OF MAIN WIND GEAR ASSEMBLY

2 TAKE OUT THREE SCREWS AND LIFT OFF MAIN WIND GEAR ASSEMBLY

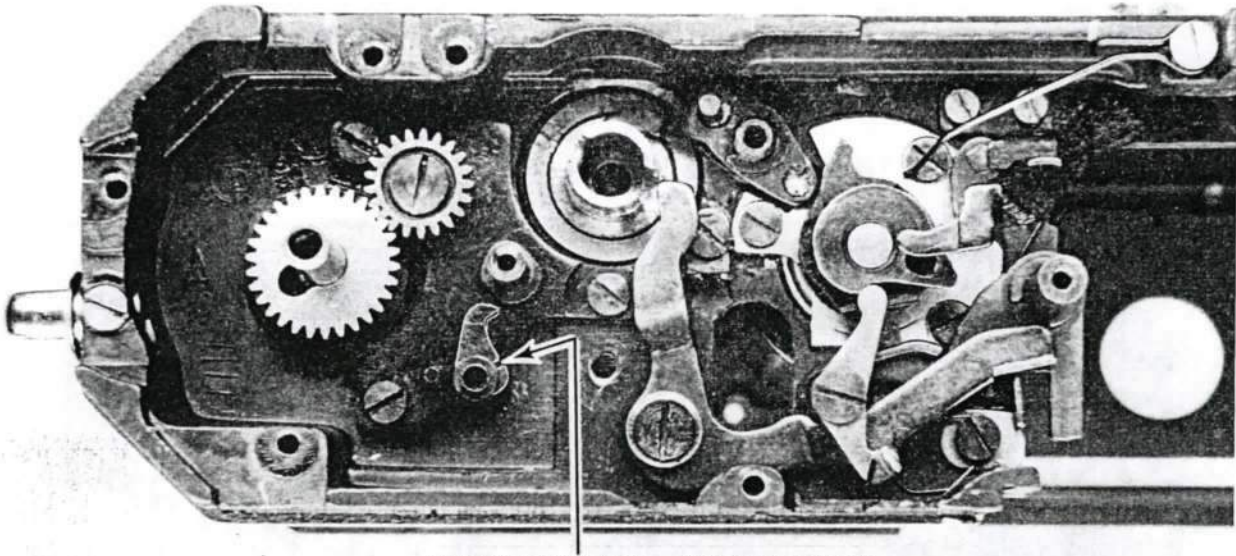




UNDERSIDE OF MAIN WIND GEAR ASSEMBLY



69

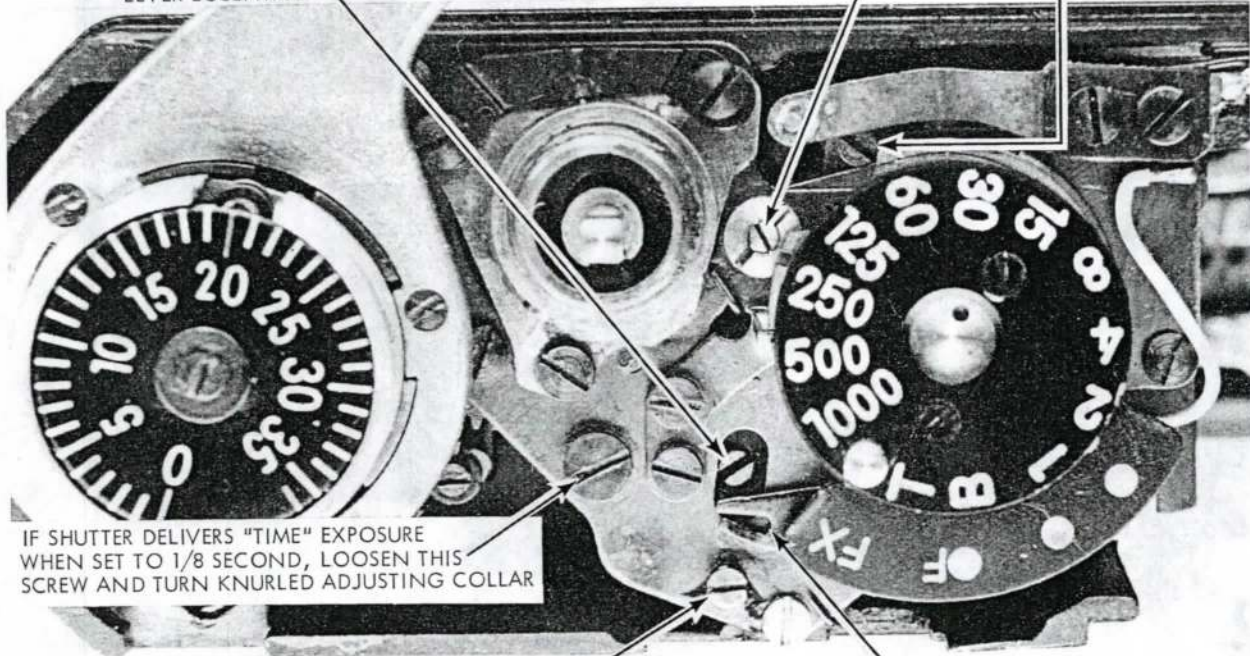


DURING REASSEMBLY, MAKE SURE END OF  
CLUTCH SPRING ON INTERMEDIATE GEAR  
STACK SEATS IN DETENT PAWL NOTCH

70

SPEED ADJUSTMENTS:

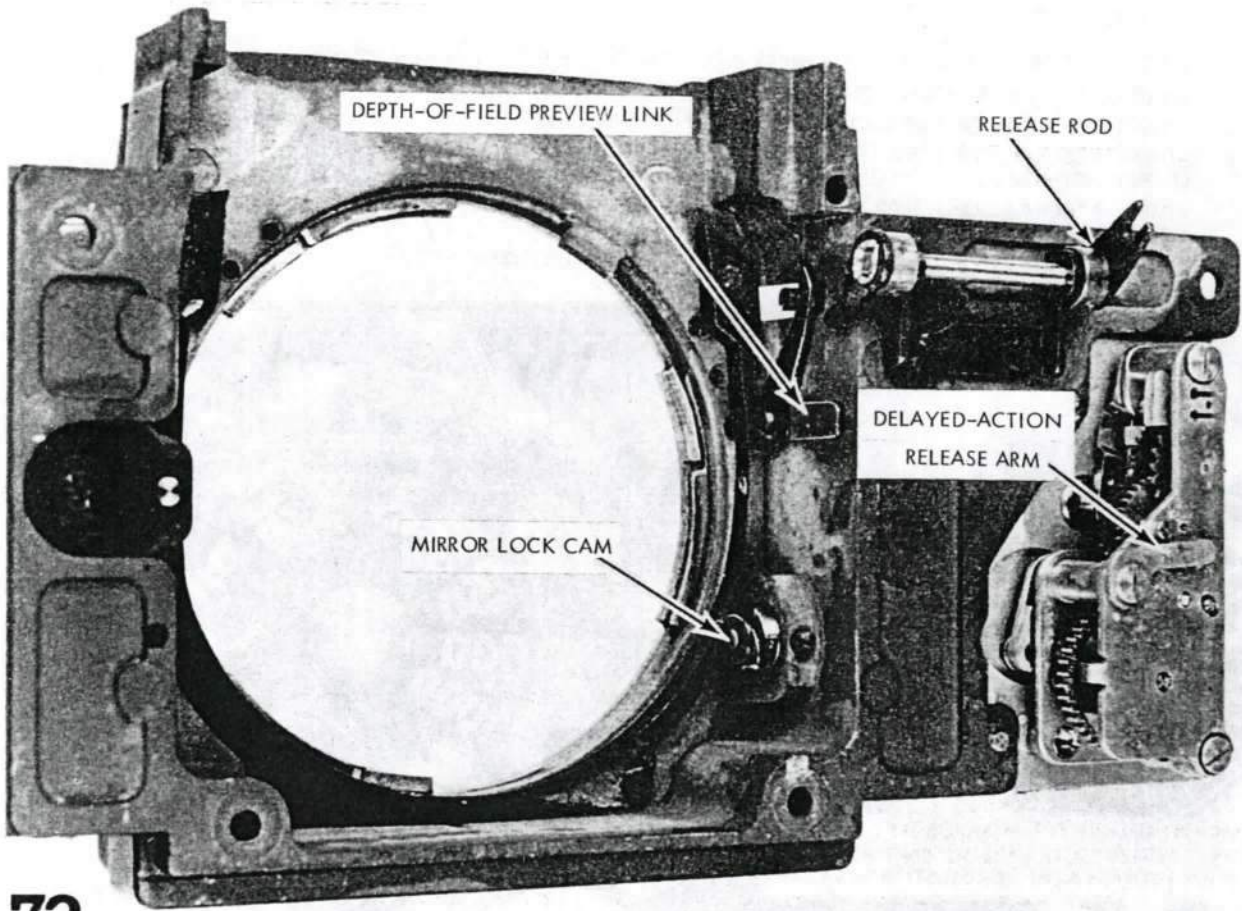
- 1 SET TRAVEL TIME OF OPENING CURTAIN TO 14.5 MILLISECONDS
- 2 SET CLOSING CURTAIN TENSION TO CORRECT SIDE-TO-SIDE VARIATION
- 3 ADJUST ACCURACY OF 1/60 SECOND WITH DISENGAGING LEVER ECCENTRIC STUD
- 4 ADJUST ACCURACY OF 1/500 SECOND WITH ECCENTRIC SCREW AT DISENGAGING LEVER PIVOT POINT -- RECHECK 1/60 SECOND
- 5 ADJUST ACCURACY OF 1/1000 SECOND BY REFORMING SPLIT SECTION OF HIGH-SPEED CAM
- 6 ADJUST ACCURACY OF 1/4 SECOND WITH UPPER RETARD ADJUSTMENT LEVER ECCENTRIC



IF SHUTTER DELIVERS "TIME" EXPOSURE WHEN SET TO 1/8 SECOND, LOOSEN THIS SCREW AND TURN KNURLED ADJUSTING COLLAR

ADJUST "X" SYNC BY TURNING ECCENTRIC STOP

OR BY REFORMING SPLIT TAIL OF SYNC DELAY CONTROL CAM FOLLOWER



72

