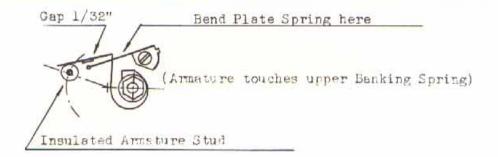
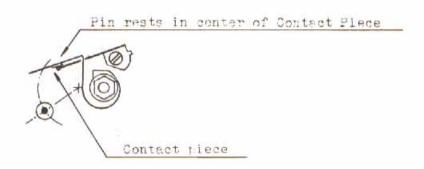
INSTRUCTIONS

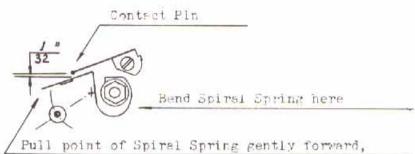
Model "F"

Sheet No. C3

SUBJECT: Adjustment of Motor Contacts







(using light pair of tweezers) and let it drop under Contact Pin - adjust - and restore spring to original position.

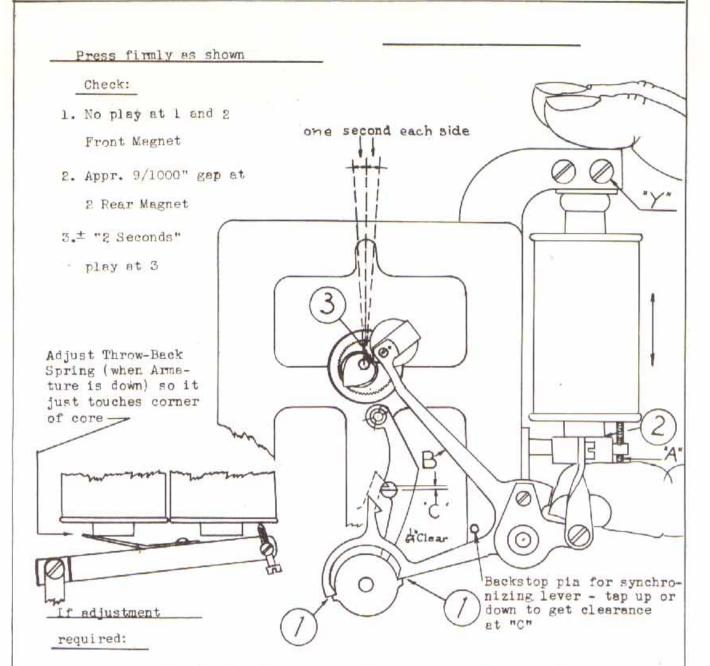
Check Springs on both sides of Contact over full width and for appr. simultaneous "Break" and "Make".

INSTRUCTIONS

Model "F"

Sheet No. Ch

SUBJECT: Adjustment of Synchronizing Levers etc.



- 1. Loosen 4 Yoke Screws "Y" and Screw "A"; adjust Magnet; tighten 4 Screws "Y"
- 2. Tighten Screw "A" until gap 9/1000" (Appr. 5 layers of newspaper) under Rear Magnet.
- 3. Bend Synchronizing lever et "B" for play at 3.

ENGINEERING DEPARTMENT

INSTRUCTIONS

SELF WINDING CLOCK COMPANY, INC., Brooklyn, N.Y. MODEL "F"

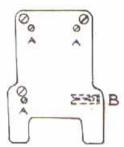
Sheet No.D-1

SUBJECT: Maintenance - Cleaning and Oiling

- 1. REMOVE: Movement from case
 - a. Hands

Unscrew knurled nut
Pry off minute hand with screw driver
Remove hour hand by grasping at center with
fingers and, while pulling, turn back and forth.

Movement with sweep seconds hand: Remove small knurled nut. Insert small screw driver between clip and hand socket and pry a little at a time, turning hand to a new position at each pry. Remove clip and proceed to remove minute and hour hands as above.



b. Dial

Remove four dial screws

c. Wires

Remove winding battery leads, synchronizing circuit and any wires to contacts

d. Movement

Unscrew three bracket screws "A" Remove bracket clamp "B"

e. Dial Train

Unscrew two knurled nuts

f. Heart-Shaped Seconds Socket

Remove contact assembly, if any Remove smell, headless screw (end of arbor)

g. Synchronizing Levers

Remove knurled nut on stud

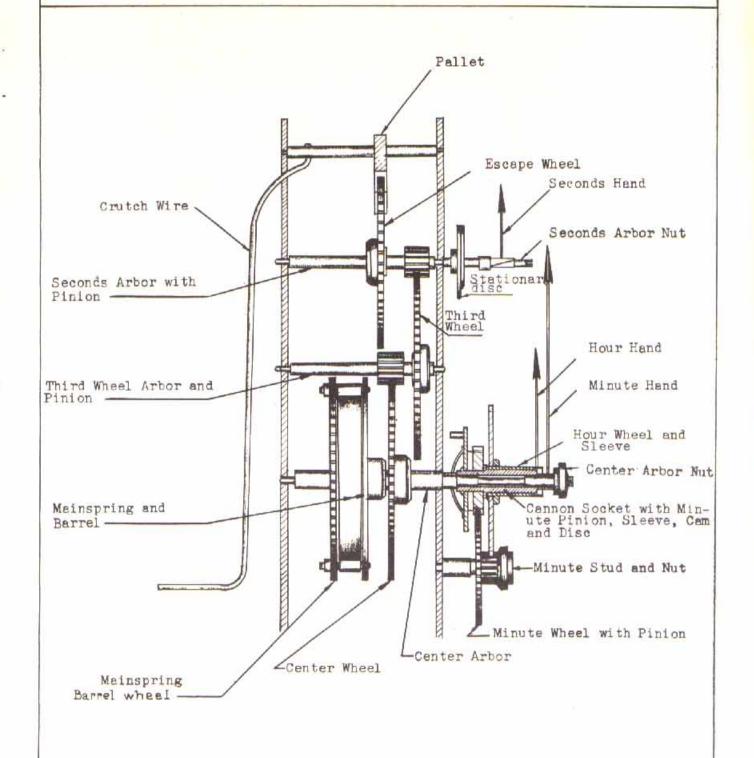
- BRUSH: All bearings and pivot holes. Use Pyrene or similar non-combustible cleaning fluid on stiff marking brush (spin wheels while cleaning to drive out dirt). Allow to saturate for two or three minutes.
- 3. WIPE: Plates and arbors (Use cheese cloth on flat wood piece)
- 4. OIL: All bearings and pivots (Use fine wire or heavy needle)
 Use on drop on all pivots
 Trace of oil on center arbor nut and pallets
 Vaseline on winding lever and pin on motor armature
- 5. CHECK: All contacts. Must be dry and clean. Smooth out all grooves with fine emery cloth.
- 6. REPLACE: All parts previously removed

INSTRUCTIONS

Model "F"

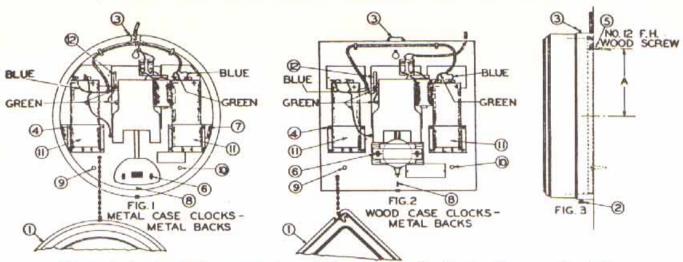
Sheet No.A-1

SUBJECT: General Description - Movement Parts



INSTRUCTIONS FOR INSTALLING SELF WINDING CLOCKS

Styles 25, 37, 42 and 43 — 11" and 15" dials — metal cases and metal backs. Styles 27, 28 and 35 — 10" and 12" dials — wood cases and metal backs.



These clocks should be mounted on rigid vertical walls. To install, proceed as follows:

- 1. Remove case front from metal back. Front (1) can be removed by loosening knurled screw (2) at bottom and lifting case off of pin or lip (3) at top. Remove straight out to prevent bending dial.
- Screws for mounting clock on wall will be found fastened to left hand battery shelf at (4). Insert the
 large mounting screw (5) in wall with head pointing up. Locate screw directly above point where dial
 center is desired. Distance between dial center and mounting screw (Dimension A Fig. 3) can be ascertained from table below.

			DISTANCE DIAL CLITTER TO	
STYLE OF CLOCK			CENTER OF MOUNTING SCREW	
Nos.	25, 37, 42,	43-11	dial	6"
**	25, 37	-15	dial	8-5/16
29	27, 28, 35			
**	27	-12	dial	5-5/8
99	28, 35	- 12	dial	5-7/8"

- Hang metal back on mounting screw and unfasten screws or wood block (6) holding pendulum. (Where
 pendulum is held by screws only, save blocking screws and wing nuts in loops (7) as directed) (Where wood
 blocks are used, set aside for future return shipment)
- Plumb metal back on wall by shifting slightly until tip of pendulum rod lines up with index mark (8) on back. Be sure pendulum swings freely.
- Insert two side steady screws in holes (9 & 10). Do not use nails for this fastening. If necessary to remove case for drilling holes for steady screws, reblock pendulum to avoid buckling suspension spring.
- When case is firmly fastened to wall, insert two dry cells in metal holders (11). Connect wiring harness
 and pull time service wires through hole or groove at top of back for connection to Fahnstock connectors.
- 7. Wind clock movement by pressing key (12) at left hand side of movement plate for about ten seconds.
- 8. Start pendulum and set hands on time.
- Reinstall case front. Top of case should catch on pin or lip at top of metal back. When case front is secure
 at top, push in lower part and turn up knurled screw at bottom, finger tight.
- CAUTION: Be sure case front is securely fastened to back so that it cannot fall off and result in injury or damage. Chain with hook is provided on each back to hold case front when removed for repair. Hook to battery holders (11) when not in use.
- IMPORTANT: Before leaving premises, instruct subscriber how to remove case front and how to make Daylight Saving Time changes. Caution him never to turn hands backward and to make sure front is always refastened to metal back.

SELF WINDING CLOCK COMPANY, INC.
NEW YORK

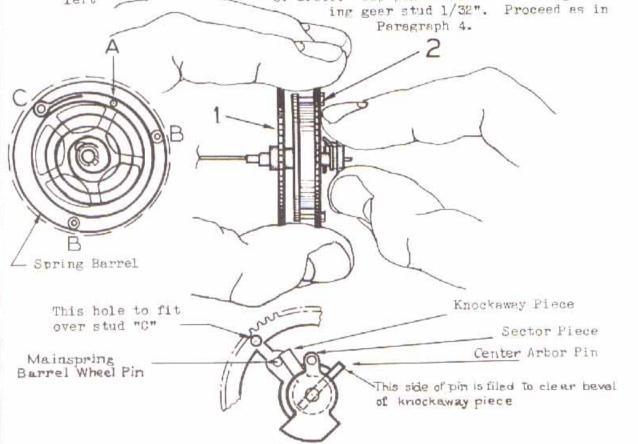
INSTRUCTIONS

Model "F"

Sheet No. D3

SUBJECT: Directions for Setting Up Turns on Mainspring

- 1. Remove Front Plate of Movement and take out Center Arbor Assembly
- 2. Grasp both gears firmly with left hand and slide off "Sector" and Knockaway Piece as shown.
- 3. Grasp Gear (2) with right hand and let Spring unwind SLOWLY by loosening grip on Gear (1) slightly.
- 4. Grasp Gear (1) and turn Gear (2) counter-clockwise (facing Gear (2)) until longer end of Arbor Pin is in line with Gear Stud. Now make desired number of turns plus 1/4 turn. Insert "Knockaway Piece" and "Sector Piece" as shown.
- 5. Reinstall Center Arbor Assembly.
- 6. If new spring is installed, proceed as in paragraphs 1, 2 and 3. Then - knock out erbor pin and unscrew 3 nuts to remove barrel wheel "2". Install new spring with start of first turn outside of pin "A". All turns to be inside studs "B" and "C". Be sure slot at end of spring engages pin on spring hub. Replace gear and tighten 3 muts. Hold arbor so pin hole is vertical (spring completely unwound). Insert arbor pin from top if gear stud is to right of arbor or insert pin from bottom if gear stud is to of arbor. Tep pin in place with long end clear-



Prep. by: H. Maers

Appr. by: H. M.

Issued : May 17, 1945 Supers.

A. GENERAL DESCRIPTION

- 1. Movement
- 2. Winding
- 3. Hourly winding control
- 4. Winding Circuit
- 5. Synchronization

B. INSTALLATION

- 1. Unpacking (Pg. 4)
- 2. Suspending, Wiring & Starting
- 3. Maintenance of sweep seconds movement

C. ADJUSTMENTS

- 1. Hourly winding circuit closer
- 2. Adjustment of Motor Magnet and Armature
- 3. Adjustment of Motor Contacts
- 4. Adjustment of Synchronizing Levers
- 5. Adjustment of friction on Seconds Hand Arbor
- 6. Adjustment of Heavy Duty Minute Contact Fingers

D. MAINTENANCE

- 1. Cleaning and Oiling
- 2. Exchanging Movements, Packing for Return Shipment
- 3. Directions for setting up turns on mainspring

Ex Libris
H. Weiland

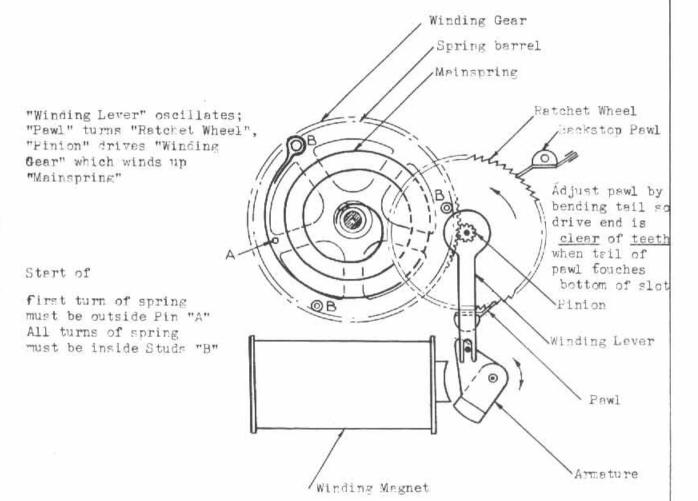
INSTRUCTIONS

Model "F"

Sheet No. A-2

SUBJECT: General Description - Winding

Whenever "Winding Magnet" circuit is closed, "Armature" vibrates same way as the hammer of an ordinary electric bell.



ENGINEERING DEPARTMENT

INSTRUCTIONS

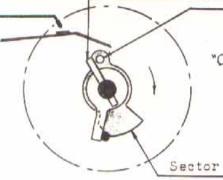
SELF WINDING CLOCK COMPANY, INC., BROOKLYN, N.Y. MODEL "F"

Sheet No. A3

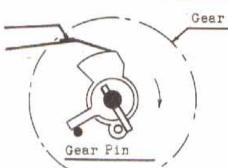
SUBJECT: General Description - Hourly Winding Control



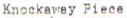
Sector Pin

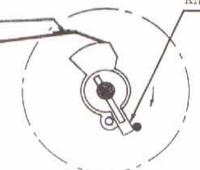


"Center Arbor Pin" engages "Sector Pin" and drives "Sector" to

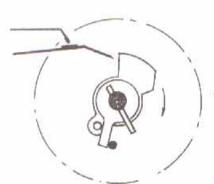


"Contact - On" Position Winding motor drives "Gear" (Winding Mainspring). "Mainspring Barrel Wheel Pin" engages "Knockaway-Piece"





"Knocksway Piece" reaches "Sector Pin" end rotates Sector to



"Contact - Off" Position.

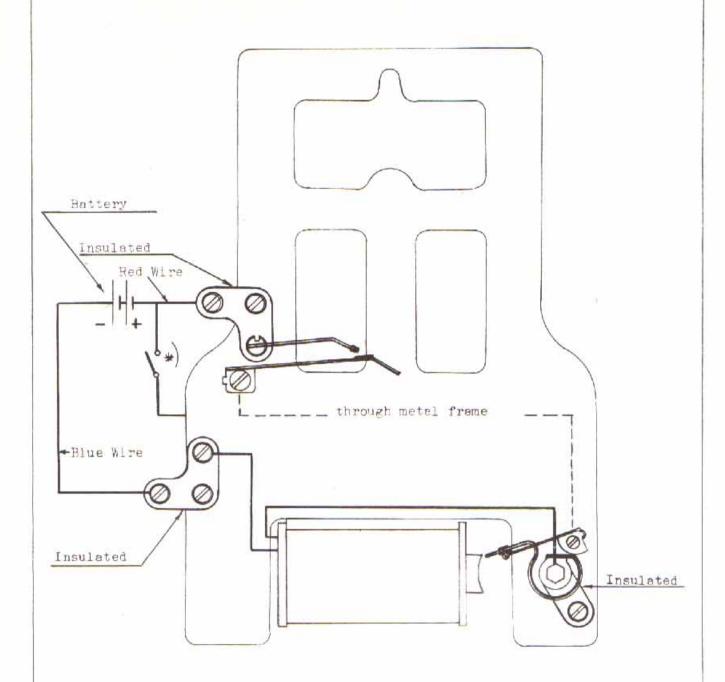
Winding motor stops; "Gear" rests, "Center Arbor Pin" revolves; engages "Sector Pin" again; Etc.

ENGINEERING DEPARTMENT Self Winding Clock Co., Inc., Brooklyn, N.Y. INSTRUCTIONS

MODEL "F"

Sheet No. A-4

SUBJECT: General Description - Winding Circuit



* Key for starting winding motor by hand.

INSTRUCTIONS

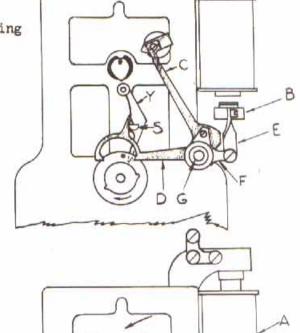
Model "F" Sheet No. A-5

SUBJECT: General Description - Synchronization

"Synchronizing" Magnet De-energized

Connecting piece (E) connects Armature (B) with Lever Arm (F) which is placed on Stud (G)

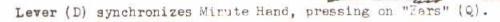
Minute Synchronizing Arm (D) is locked on Pin (S) of Sync. Latch (Y) at all times except during synchronizing periods.



"SYNCHRONIZING"

"Synchronizing" Magnet Energized

Cannon Socket Pin (U) has moved Sync. Latch Pin (S) thereby unlocking Arm (D). Magnet (A) pulls up Armature (B), which in turn pulls Levers (C) and (D) into synchronizing position.



Lever (C) synchrorizes Second Hand, turning "Heart-Shaped Cam"(R) to zero position.

INSTRUCTIONS

FOR INSTALLATION AND MAINTENANCE OF SWEEP SECONDS CLOCKS

STANDARD CLOCK

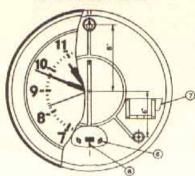


FIG. 1-INSTALLATION

REMOVE PENDULUM BLOCKING SCREWS WITH WING NUTS () AND STORE IN LOOP () FOR USE WHEN RETURNING CLOCK BEFORE FASTENING TO WALL.PLUMB METAL BACK WITH PENDULUM AT REST. PLUMB SO THAT RAISED CENTER LINE () ON PENDULUM, IS DIRECTLY IN LINE WITH MARK DN BACK.
NOTE THAT CLOCK BEATS EVENLY. ALWAYS FASTEN PENDULUM TO METAL BACK BEFORE REMOVING CLOCK FROM WALL.

BE FASTENED WITH STRAIGH WHEN REPLACING GEARS 0 0 PUNCH MARKS SHOULD BE IN POSITION SHOWNS PART FS 145 IDLER WHEEL RETAINING WASHER POSITION OF THIS STUD PART FS 146 IDLER WHEEL RETAINING GOVERNS RELATIVE ALIGN-MENT OF MINUTE AND WASHER SCREW SECOND HANDS. DO NOT CHANGE FACTORY ADJUSTMENT

DIAL TRAIN GEARING - SHOWING CORRECT RELATION OF TEETH MINUTE HAND PART FS 179 TURN ONLY CLOCKWISE

HOUR HAND PART FS 178 BRIDGE RATCHET FIG. 3

THIS BRIDGE MUST ALWAYS

STATION ARY AWL SPRING

FIG. 3 A
STATIONARY DISC REAR VIEW
PAWL SPRING IS PERMANENTLY ADJUSTED TO
STANDARD TENSION AT FACTORY. IF SECOND
HAND SHOWS TENDENCY TO SLIP, TENSION OF SPRING
CAN BE INCREASED BY PRESSING ON SPRING AT CUSE TWEEZERS.

SIDE VIEW OF HAND ARBOR AND RATCHET ASSEMBLY

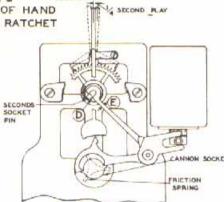


FIG. 5 TYPE B SYNCHRONIZING LEVER IN SYNCHRONIZED POSITION

(PRESENT SWEEP SECONDS CLOCKS)

NOTE RECESSARY CLEARANCE BETWEEN SECONDS

SOCRET PIN AND SYNCHRONIZING FORK AT DIWITH

SYNCHRONIZING LEVER HELD CLOSED, SECOND HAND

SHOULD HAVE A SECOND PLAY 2: IF HAND HAS NO

PLAY, PLACE PLIERS AT POINT (E) AND DUIST FORK

SLIGHTLY UPWARD, UNTIL A SECOND PLAY IN OBSERVED.

SWEEP SECONDS PARTS THAT MAY BE ORDERED FROM FACTORY

STENCIL 1853 B

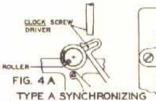
FS HS IDLER WHEEL RETAINING WASHER F3 H6 IDLER WHEEL RE-MINISTER
F3 I72 MINUTE HAND CLIP
F3 I74 FRONT SECONDS ARBOR NUT
F3 I80 SWEEP SECONDS HAND ASSEMBLY
OTHER MOV'T. PARTS EXCEPT SWEEP
SECONDS PARTS AS LISTED ON WU.T CO. (PART FS (72) MINUTE HAND RETAINING FORCE OR USE TOOL

(PART FS 174) FRONT SECONDS ARBOR NUT MUST BE TIGHT USE CLOCK PLIERS

PART FS 1801 SWEEP SECONDS HAND MAY BE TURNED IN EITHER DIRECTION

NOTE SPECIAL SHAPED HOLE IN SOCKET. SECONDS HAND CAN FIT ONLY ONE WAY TO REMOVE INSERT CLOCK SCREW-DRIVER AT POINT (F) AND TURN SUGHTLY.

TO



LEVER FORK

(EARLY MODEL SWEEP SECONDS

IF FORK STICKS WHEN CLOCK IS SYNCHRONIZED INCREASE CLEARANCE BETWEEN FORK AND ROLLER BY INSERTING CLOCK SCREW-DRIVER AT POINT
INDICATED BY ARROW AND TURNING
SLIGHTLY.

FIG.4 TYPE B SYNCHRONIZING LEVER IN NORMAL POSITION (PRESENT SWEEP SECONDS

CLOCKS)

LATCH RELEASED READY FOR SYNCHRONIZING

SELF WINDING CLOCK COMPANY, INC.

NEW YORK

INSTRUCTIONS

Model "F"

Sheet No.Cl

SUJECT: Adjustment of Hourly Winding Circuit Closer

OPEN

Gap 52

Bend here

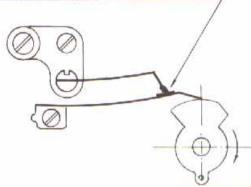
Fingertip even with edge

CLOSING

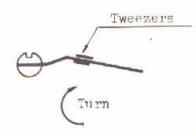
Bend here

Edge rests squarely on Contact

CLOSED



BEND SPRING AS SHOWN. (Exaggerated)



Tweezers

Prep. by: H. Maerz

Appr. by: H. M.

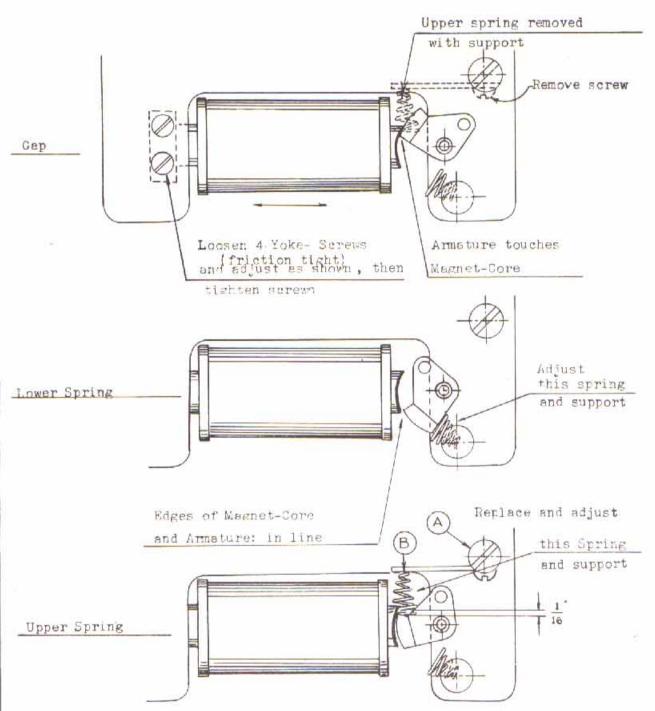
Issued: May 14, 1945 Supers.:

INSTRUCTIONS

Model "F"

Sheet No.C2

SUBJECT: Adjustment of Motor Magnet and Armature



Armsture touches upper Banking Spring

NOTE: To adjust upper spring, loosen screws "A" (friction tight), front and rear plates and set support up or down. Tighten screws "A" front and rear. Loosen screw "B" and turn spring so end of same is flat against armature.

To adjust lower spring, remove same and compress with pliers if too long.

Prep. by: H. Maerz

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Issued: May 14, 1945 Supers.: