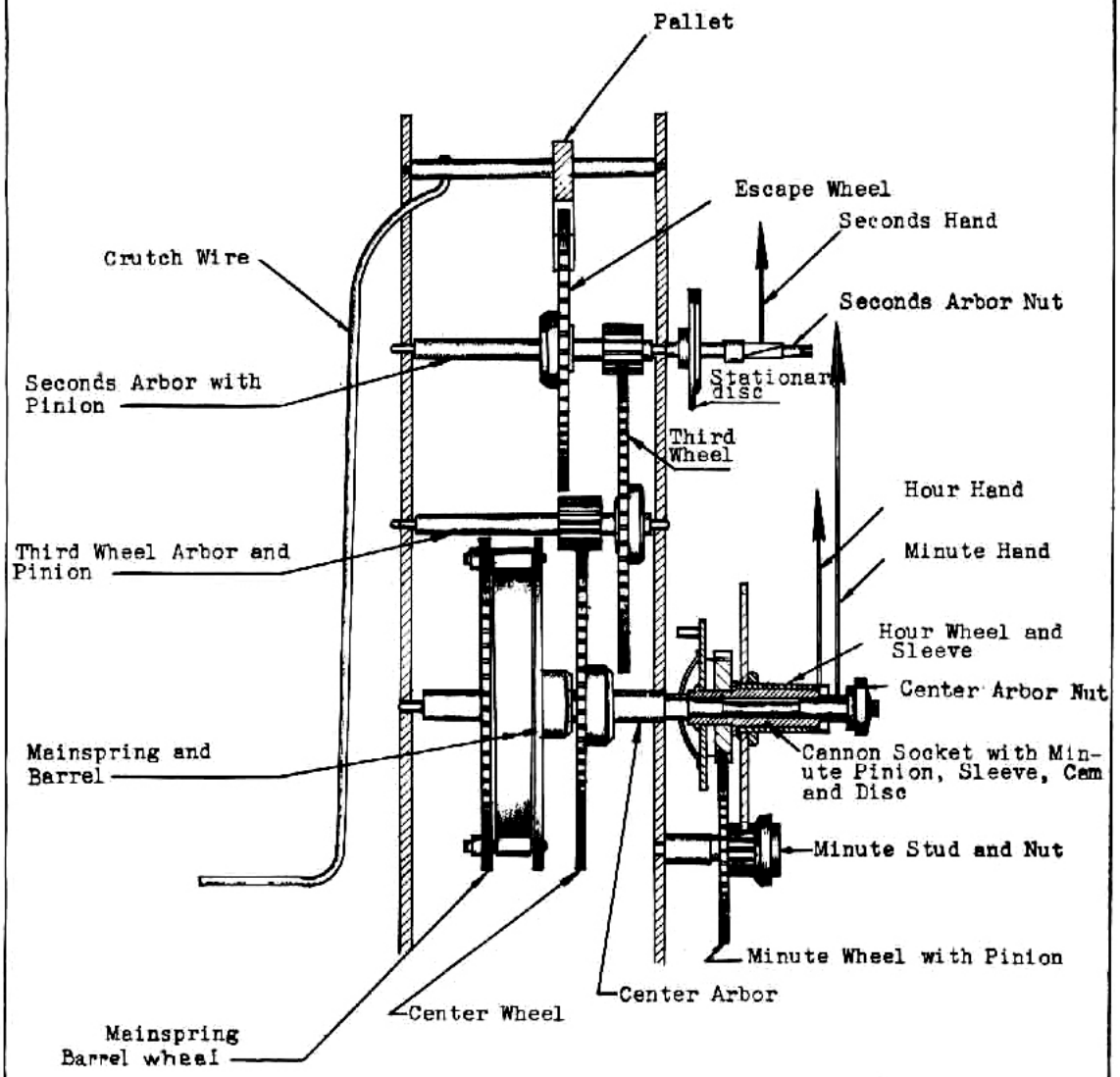
ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INDEX OF INSTRUCTIONS	
	Model "F"	Sheet No. 1

ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No.A-1

SUBJECT: General Description - Movement Parts



Prep. by: H. Maerz	Appr. by: H. M.	Issued: May 17, 1945	Supers.:

ENGINEERING DEPARTMENT SELF WINDING CLOCK COMPANY, INC., BROOKLYN, N.Y.	INSTRUCTIONS Model "F" Sheet No. A-2

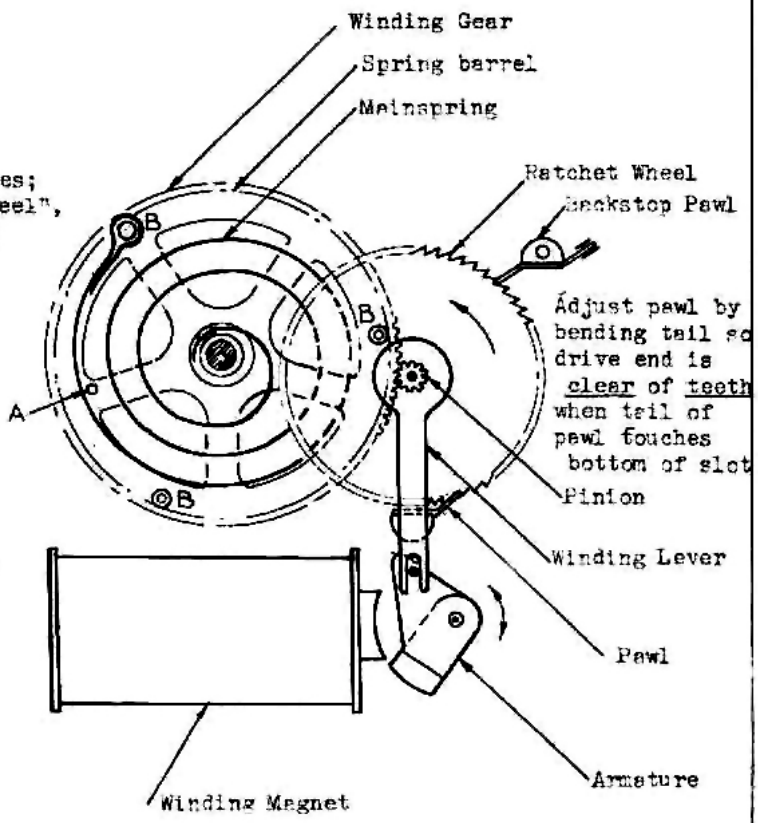
SUBJECT: General Description - Winding

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

"Winding Lever" oscillates; "Pawl" turns "Ratchet Wheel", "Pinion" drives "Winding Gear" which winds up "Mainspring"

Start of

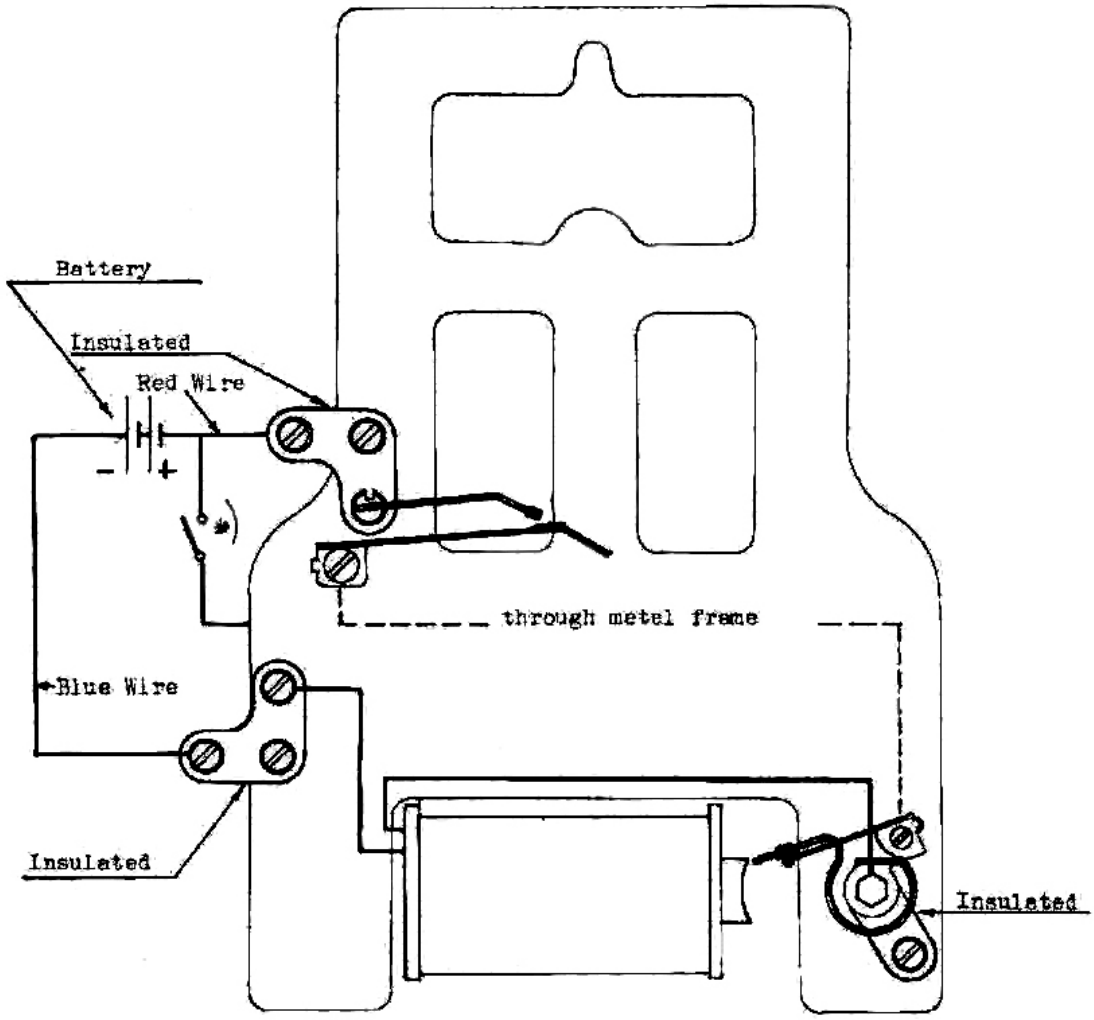
first turn of spring must be outside Pin "A"
All turns of spring must be inside Studs "B"



Prep. by: H. Myers	Appr. by: H. M.	Issued: May 17, 1945 Supers.

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.

Prep. by: H. Meerz	Appr. by: H. M.	Issued: May, 1945	Supers.:

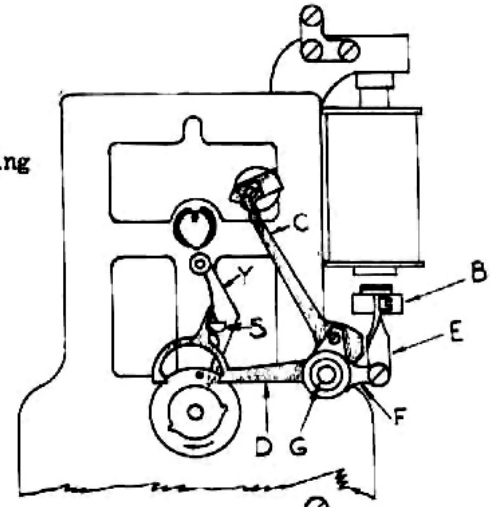
ENGINEERING DEPARTMENT SELF WINDING CLOCK COMPANY, INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No. A-5

SUBJECT: General Description - Synchronization

"Synchronizing" Magnet De-energized

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

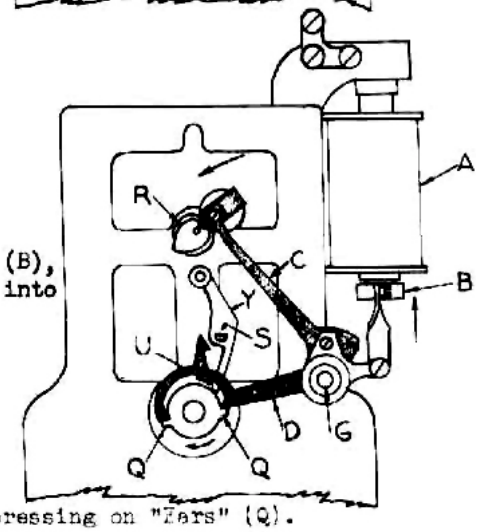
Minute Synchronizing Arm (D) is locked on Pin (S) of Sync. Latch (Y) at all times except during synchronizing periods.



"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 (D) synchronizes Minute Hand, pressing on "Ears" (Q).

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

Prep. by: H. Maerz	Appr. by: H. M.	Issued: May 17, 1945	Supers.:

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.

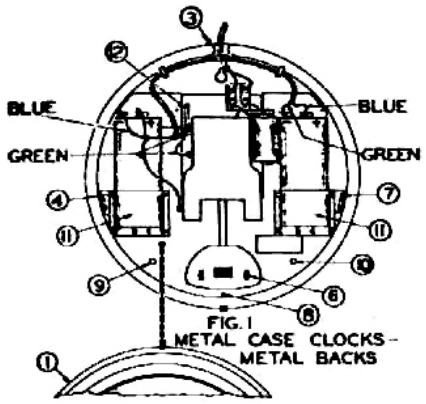


FIG. 1
METAL CASE CLOCKS - METAL BACKS

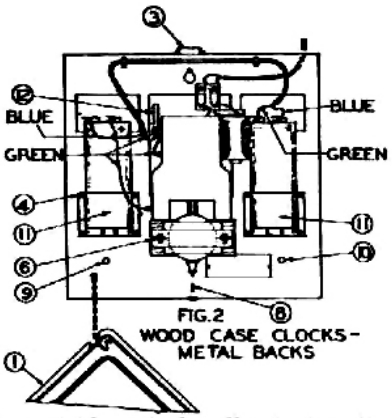


FIG. 2
WOOD CASE CLOCKS - METAL BACKS

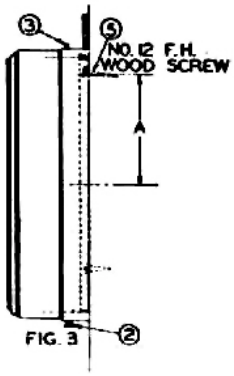


FIG. 3

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.
2. 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.

STYLE OF CLOCK	DISTANCE DIAL CENTER TO CENTER OF MOUNTING SCREW
Nos. 25, 37, 42, 43 — 11" dial	6"
" 25, 37 — 15" dial	8-5/16"
" 27, 28, 35 — 10" dial	5-5/8"
" 27 — 12" dial	5-5/8"
" 28, 35 — 12" dial	5-7/8"

3. 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)
4. 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.
5. 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.
6. 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.
9. 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

FOR INSTALLATION AND MAINTENANCE OF SWEEP SECONDS CLOCKS

STANDARD CLOCK
HANG IN THE USUAL MANNER

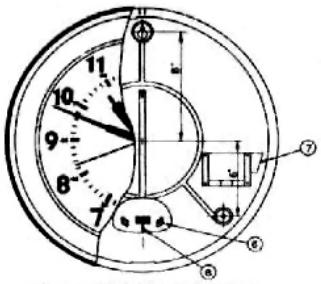


FIG. 1 - INSTALLATION

REMOVE PENDULUM BLOCKING SCREWS WITH WING NUTS (F) AND STORE IN LOOP (7) FOR USE WHEN RETURNING CLOCK. BEFORE FASTENING TO WALL, PLUMB METAL BACK WITH PENDULUM AT REST. PLUMB SO THAT RAISED CENTER LINE (A) ON PENDULUM, IS DIRECTLY IN LINE WITH MARK ON BACK. NOTE THAT CLOCK BEATS EVENLY - ALWAYS FASTEN PENDULUM TO METAL BACK BEFORE REMOVING CLOCK FROM WALL.

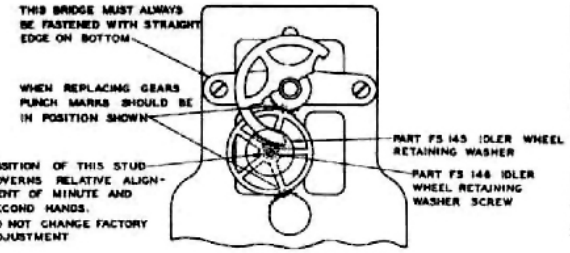


FIG. 2
DIAL TRAIN GEARING - SHOWING CORRECT RELATION OF TEETH

SWEEP SECONDS PARTS THAT MAY BE ORDERED FROM FACTORY

FS 145 IDLER WHEEL RETAINING WASHER
FS 146 " " " " SCREW
FS 172 MINUTE HAND " CLIP
FS 174 FRONT SECONDS ARBOR NUT
FS 180 SWEEP SECONDS HAND ASSEMBLY
OTHER MOV'T. PARTS EXCEPT SWEEP SECONDS PARTS AS LISTED ON W.U.T CO. STENCIL 1853 B

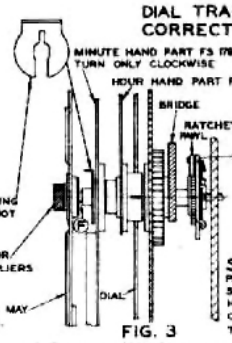


FIG. 3
SIDE VIEW OF HAND ARBOR AND RATCHET ASSEMBLY

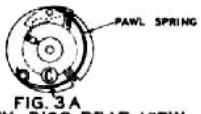


FIG. 3A
STATIONARY DISC REAR VIEW
PAWL SPRING IS PERMANENTLY ADJUSTED TO STANDARD TENSION AT FACTORY. IF SECOND HAND SHOWS TENDENCY TO SLIP, TENSION OF SPRING CAN BE INCREASED BY PRESSING ON SPRING AT (C) USE TWEEZERS.

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

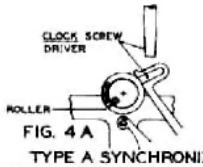


FIG. 4A
TYPE A SYNCHRONIZING LEVER FORK
(EARLY MODEL SWEEP SECONDS CLOCKS)

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.

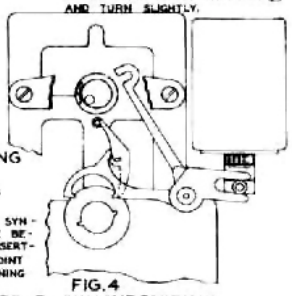


FIG. 4
TYPE B SYNCHRONIZING LEVER IN NORMAL POSITION (PRESENT SWEEP SECONDS CLOCKS)
LATCH RELEASED READY FOR SYNCHRONIZING

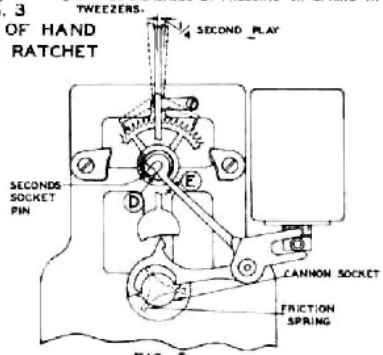


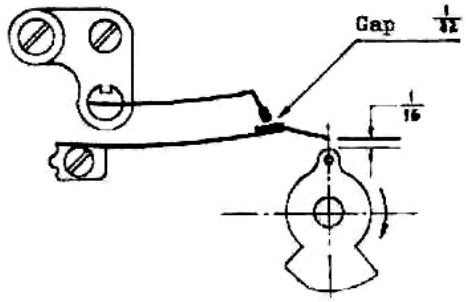
FIG. 5
TYPE B SYNCHRONIZING LEVER IN SYNCHRONIZED POSITION
(PRESENT SWEEP SECONDS CLOCKS)
NOTE NECESSARY CLEARANCE BETWEEN SECONDS SOCKET PIN AND SYNCHRONIZING FORK AT (D) WITH SYNCHRONIZING LEVER HELD CLOSED, SECOND HAND SHOULD HAVE ¼ SECOND PLAY. IF HAND HAS NO PLAY, PLACE PLIERS AT POINT (E) AND ADJUST FORK SLIGHTLY UPWARD, UNTIL ¼ SECOND PLAY IS OBSERVED.

SELF WINDING CLOCK COMPANY, INC.
NEW YORK

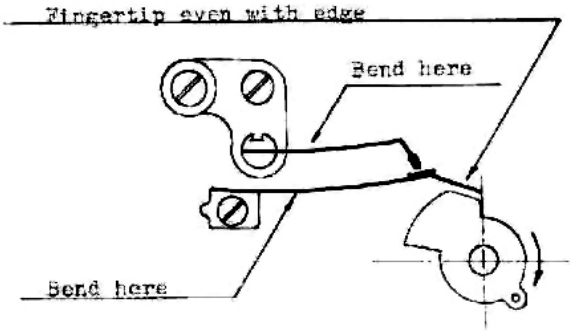
ENGINEERING DEPARTMENT SELF WINDING CLOCK CO.,INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No.C1

SUJECT: Adjustment of Hourly Winding Circuit Closer

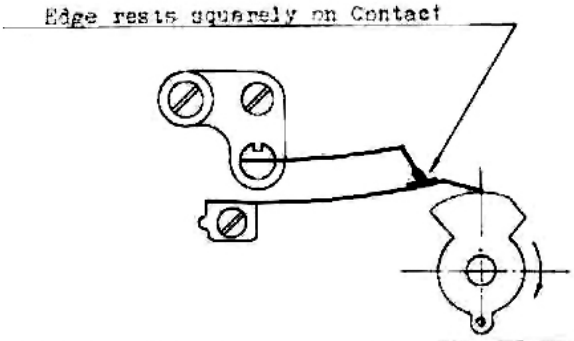
OPEN



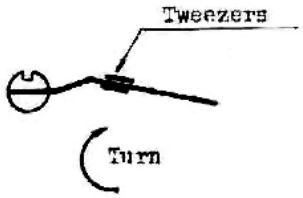
CLOSING

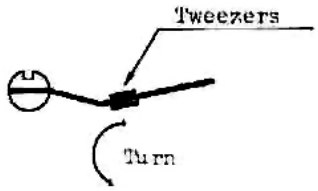


CLOSED



BEND SPRING AS SHOWN. (Exaggerated)

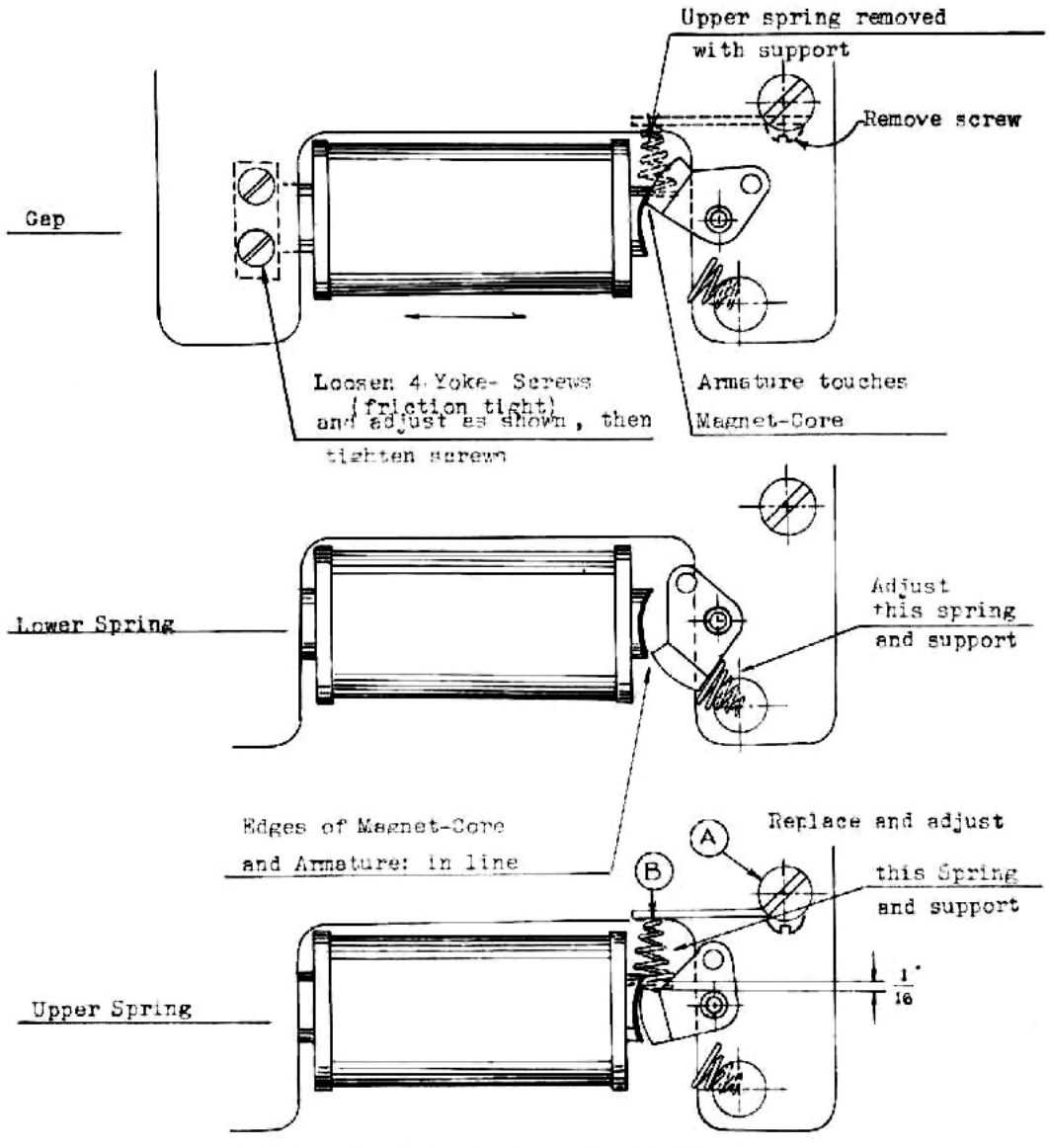




Prep. by:H. Maerz	Appr. by: H. M.	Issued: May 14, 1945	Supers.:

ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No. C2

SUBJECT: Adjustment of Motor Magnet and Armature



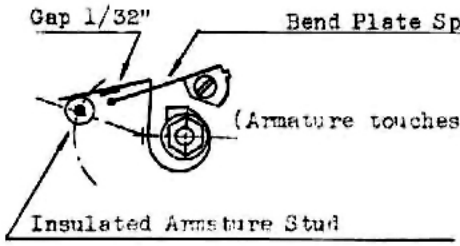
NOTE: To adjust upper spring, loosen screws "A" (friction tight), front and rear plates and set support up or down. Tighten screws "A" front and rear. Loosen screw "B" and turn spring so end of same is flat against armature.

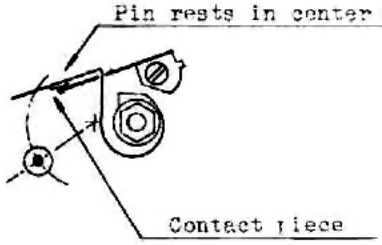
To adjust lower spring, remove same and compress with pliers if too long. If too short, grip last turn with pliers and pull out.

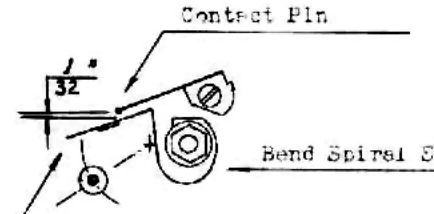
Prep. by: H. Maerz	Appr. by: H. M.	Issued: May 14, 1945	Supers.:

ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No. C3

SUBJECT: Adjustment of Motor Contacts







Pull point of Spiral Spring gently forward, (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".

Prep. By: H. Maerz	Appr. By: H. M.	Issued: May 14, 1945

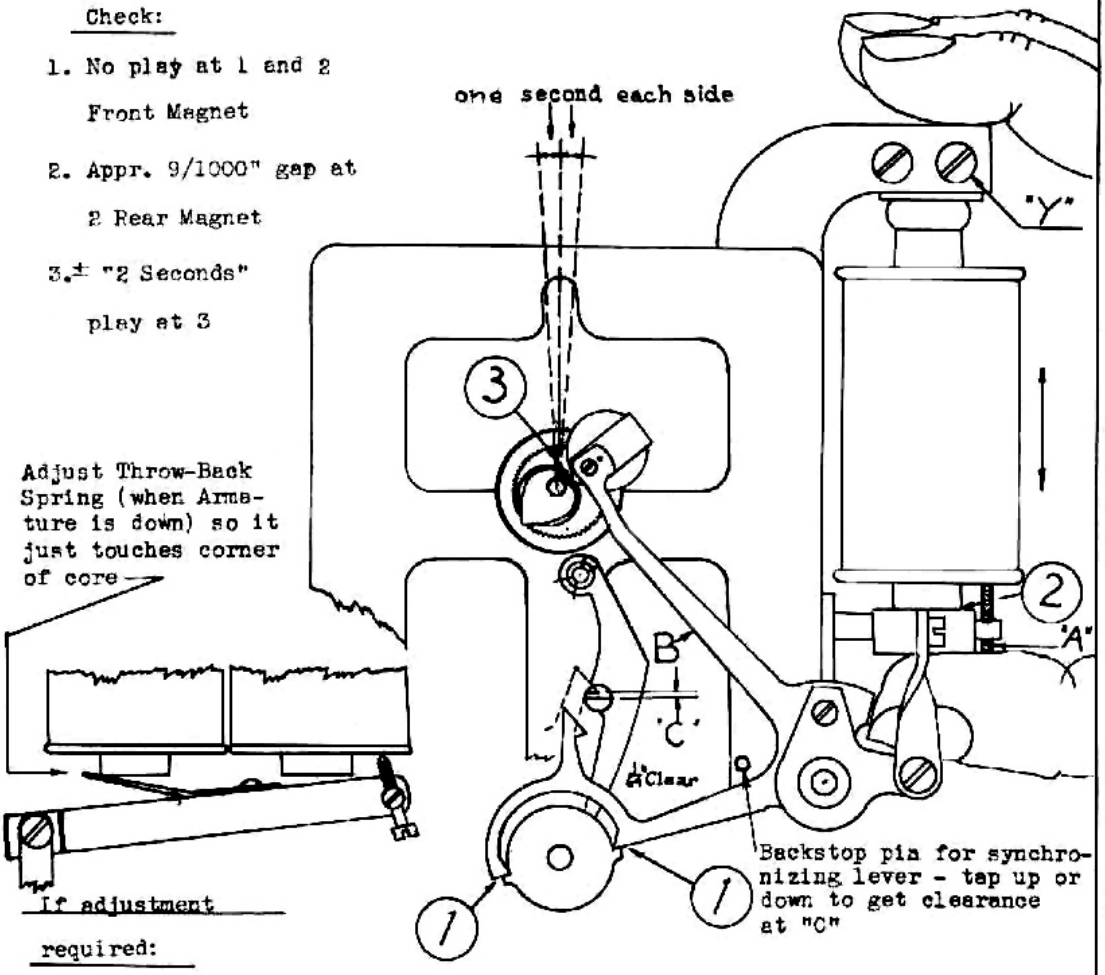
ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No. 4

SUBJECT: Adjustment of Synchronizing Levers etc.

Press firmly as shown

Check:

1. No play at 1 and 2
   Front Magnet
2. Appr. 9/1000" gap at
   2 Rear Magnet
3. ± "2 Seconds"
   play at 3



If adjustment required:

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

Prep. by: H. Maers	Appr. by: H. M.	Issued: May 17, 1945	Supers:

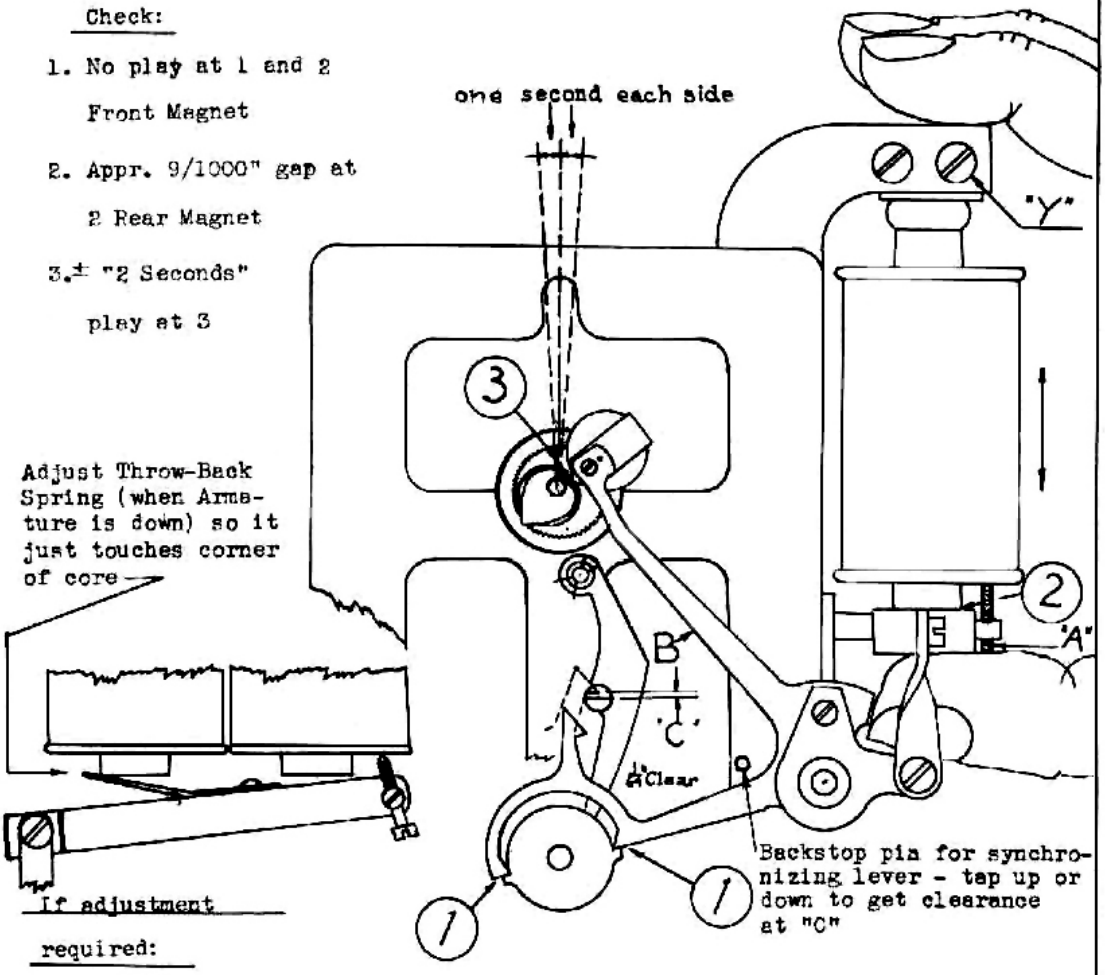
ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No. 4

SUBJECT: Adjustment of Synchronizing Levers etc.

Press firmly as shown

Check:

1. No play at 1 and 2
   Front Magnet
2. Appr. 9/1000" gap at
   2 Rear Magnet
3. ± "2 Seconds"
   play at 3



If adjustment required:

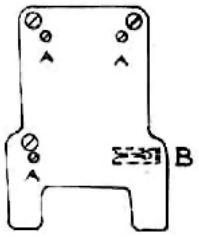
1. Loosen 4 Yoke Screws "Y" and Screw "A"; adjust Magnet; tighten 4 Screws "Y"
2. Tighten Screw "A" until gap 9/1000" (Appr. 3 layers of newspaper) under Rear Magnet.
3. Bend Synchronizing lever at "B" for play at 3.

Prep. by: H. Maers	Appr. by: H. M.	Issued: May 17, 1945	Supers:

ENGINEERING DEPARTMENT SELF WINDING CLOCK COMPANY, INC., Brooklyn, N.Y.	INSTRUCTIONS	
	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 small, headless screw (end of arbor)

g. Synchronizing Levers

Remove knurled nut on stud

2. 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

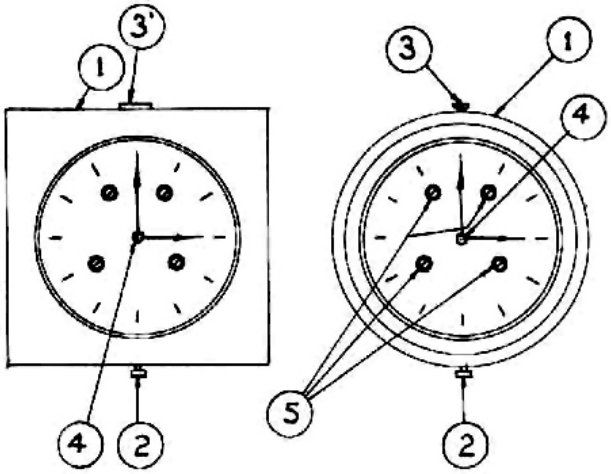
Prep. by: H. Maerz	Appr. by: H. M.	Issued: May 17, 1945	Supers.:

ENGINEERING DEPARTMENT SELF WINDING CLOCK CO., INC., BROOKLYN, N.Y.	INSTRUCTIONS	
	Model "F"	Sheet No. D2

SUBJECT: Maintenance - Exchanging Movements, etc.

1. To remove Case Front (1)

Loosen nut (2); lift case off pin (3) on lip (3'); tilt out front bottom and move straight out to prevent bending dial.



2. To remove Hands

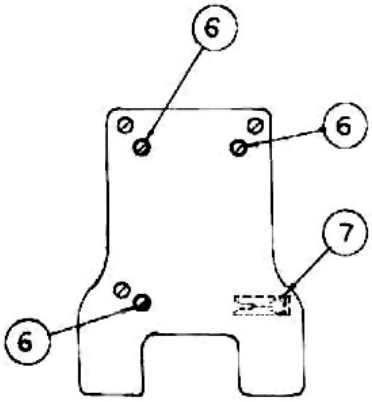
Unscrew knurled Nut (4) and pry off Hands with screwdriver.
Sweep Seconds Hand: Insert small screw driver between clip and hand socket and pry a little at a time, turning hand to a new position at each pry.

3. To remove Dial

Unscrew four screws (5)

4. To remove Movement

First remove all wires
Unscrew three screws (6) and pull clamp (7) out to the right



5. Metal Property Tag

Tag must be removed with movement and returned with it

Prep. by: H. Maerz	Appr. by: H. M.	Issued: May, 1945	Supers.:

ENGINEERING DEPARTMENT SELF WINDING CLOCK COMPANY, INC., BROOKLYN, N.Y.	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

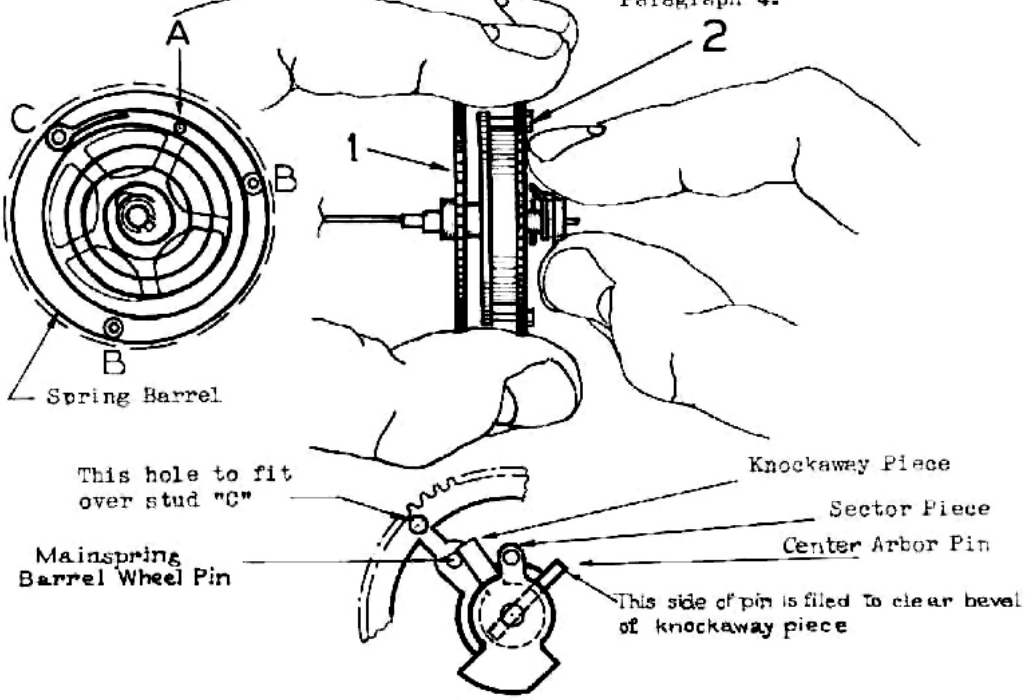
2. Grasp both gears firmly with left hand and slide off "Sector" and Knockaway Piece as shown.

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 arbor 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 nuts. 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 left of arbor. Tap pin in place with long end clearing gear stud 1/32". Proceed as in Paragraph 4.



Prep. by: H. Maers	Appr. by: H. M.	Issued : May 17, 1945 Supers..

- INSTRUCTIONS -

FOR INSTALLATION AND MAINTENANCE OF SELF-WINDING SYNCHRONIZED CLOCKS

* *
*

Clock Stopped

When clocks are found stopped it is of the utmost importance to locate the cause of the trouble. To do this, test as follows:

First: Set pendulum swinging to see if hands move; if not, see if dial is warped so as to touch hands.
Second: Turn hands to see if they bind in any way.
Third: If hands are free and yet do not move when pendulum swings, wind the clock by contact key.
Fourth: If clock winds slowly in this way, the battery is weak and the clock is run down.
Fifth: If clock winds rapidly, it shows that the trouble is caused by the center winding contact or motor brushes being out of adjustment.
Sixth: Take off hands and dial and examine all the parts closely.
Seventh: Touch contact key in case a number of times to see if the motor starts from every point.
Eighth: Take off front pallet arbor button, hold the escape wheel and raise pallet, then let the clock run down slowly until it makes on the center contact. This will show whether that part is right.
Ninth: If the fault is found and cannot be easily and surely corrected, take the movement out and make a thorough job of it.

Cleaning and Oiling

At stated times - say once in eighteen months or two years - all clocks should be thoroughly cleaned and oiled, and at the same time inspected to be sure they are in good order.

Never let the clock run down backwards as the arm A will be carried back against the brush B and bend it out of adjustment.

To clean the movement take it from the case, take out the anchor and allow it to run down gently so as not to break the pins, then remove the motor. Take off front plate and separate all the parts. Wash the plates and all parts in good quality of benzine, letting them dry before assembling. The motor must not be taken apart, but may be washed in benzine using a small brush freely about the bearings, cummutator and brushes. Put oil in all the pivot holes, but not so much that it will run. The motor bearings and the pallets of the anchor should also be oiled.

Inspect carefully to see that the center winding contact is right, and the motor without dead points. Dust out the case and put the movement in place. Before putting on the dial try the winding to be sure that is right, also see that the disc on cannon socket is in the right position to open the latch at the hour, and after the dial and hands are on move the minute hand forward past the hour and then backward gently until it is stopped by the latch. This will prove that the hand is on the square correctly.

Remounting Clock Hands

To determine if the minute hand is on the proper square of the cannon socket, slightly turn minute hand forward until it passes the even hour approximately 1½ to 2 minutes, when a slight sound should be noted, which is an indication that the latch has dropped off the latch pin on the cannon socket disc and locks the synchronizing lever until 2 minutes before the even hour. In this position the hand is placed correctly. If however, this sound occurs on any other quarter hour, carefully remove center nut by holding on to minute hand, then remove minute hand being sure not to change the position of the cannon socket. Replace the minute hand on the cannon socket. In this position the hand will point to the even hour. Be sure that the minute hand is pressed down slightly below face of the cannon socket and replace center arbor nut. Next see that the hour hand is pushed down slightly below the top of the hour wheel sleeve. When moving hour hand back and forth, there should be at least 1/64" clearance between back of minute hand socket and top of hour wheel sleeve. Test hands to see that neither hour nor minute hand touches the dial and that the hour hand does not touch the back of the minute hand.

Dials Warped

Dials, being made of zinc, warp if exposed to great heat. If they cannot be straightened a new one must be put in.

Hands Bent

When the hands are put on they must be carefully inspected, especially the hour. See that it is perfectly free and does not catch on the minute or second hands as it passes them.

Regulating

60 Beat Pendulum with 10 lb. Brass Bob and Wood Rod

One turn of regulating nut changes rate 40 seconds in 24 hours either fast or slow. If clock is equipped with front regulating bracket, one turn of regulating rod changes rate 20 seconds in 24 hours either fast or slow.

60 Beat - 15 lb. Mercurial Compensated Pendulum

One turn of regulating nut changes rate 30 seconds in 24 hours either fast or slow. Two divisions of indexed nut changes rate 1 second in 24 hours either fast or slow. If equipped with front regulating bracket one turn of regulating rod changes rate 15 seconds in 24 hours either fast or slow.

80 Beat Pendulum with 2 lb. Brass Bob and Wood Rod

One turn of regulating nut changes rate 55 seconds in 24 hours either fast or slow.

120 Beat Pendulum with 2 lb. Brass Bob and Wood Rod

One turn of regulating nut changes rate 1 minute and 50 seconds in 24 hours either fast or slow. If equipped with front or top regulating bracket, one turn of regulating rod changes rate 1 minute and 10 seconds in 24 hours either fast or slow.

140 Beat Pendulum with 2 lb. Brass Bob and Wood Rod

One turn of regulating nut changes rate 2 minutes and 20 seconds in 24 hours either fast or slow. If equipped with front or top regulating bracket, one turn of regulating rod will change rate 2 minutes in 24 hours either fast or slow.

140 Beat Pendulum with Small 10 oz. Nickel Finished Bob and Wood Rod

One turn of regulating nut changes rate 2 minutes in 24 hours either fast or slow. If equipped with front or top regulating bracket, one turn of regulating rod will change rate 2 minutes and 10 seconds in 24 hours either fast or slow.

Fast: If clock gains time turn regulating nut to the left.

Slow: If clock loses time turn regulating nut to the right.

Any subdivision of a complete turn of the regulating nut will affect the rate in proportion to the above schedule.

Circuits

The clock circuits should be clearly defined on a map or by streets from point to point, so that inspectors and linemen may be thoroughly familiar with each circuit, and know all danger points where line troubles may occur.

There should be a bell in the office, connected in the synchronizing line as an audible signal showing when the line is in working order.

Exchanging Movements

It is of utmost importance that numbers on metal property tags in clock cases should correspond with numbers of clock movements.

When movements are exchanged, the metal property tag must be removed with the movement and returned with same. When a new movement is installed, there must be a new property tag bearing same number as new movement. Managers and Inspectors should immediately report such changes to their immediate superior so that records can be properly corrected.

When exchanging movements do not remove old bracket from clock case as this movement will also fit the old style bracket. Fasten style "F" movements to old style brackets with three screws only, and omit the brass clamp such as is used on the new style bracket for "F" movements.

When ordering material for these movements, always mention style "F", specify beat of movement, size of dial and order by number as indicated in booklet entitled: "Schedule of Parts Style 'F' Minute and Style 'F' (H-Seconds) Synchronized Movements".

Directions for Packing Clocks for Shipment

Never put the battery inside of the clock, but wrap it up in paper and excelsior, and pack it in the box at the head of the clock. Block down the pendulum ball as when received.

Never leave the pendulum in the clock loose. If the blocks are lost, then take the pendulum out of the clock, wrap it in abundance of paper and slip it in beside the case.

Put a little straw or excelsior in the bottom of packing case before putting the clock in, then crowd in wads of paper and excelsior at the four corners.

Remove broken glass, if any, and put loose ornaments and keys inside the packing case.

Place strips at top and bottom of the door, to hold the clock in packing case, nailing through the sides of the packing case into the ends of the strips. Place thick pads of paper and excelsior under the strips, at the edge of the clock; press strips down while nailing in, so the door cannot open.

* * * *

INSTRUCTIONS

FOR INSTALLATION AND MAINTENANCE OF SWEEP SECONDS CLOCKS

STANDARD CLOCK
HANG IN THE USUAL MANNER

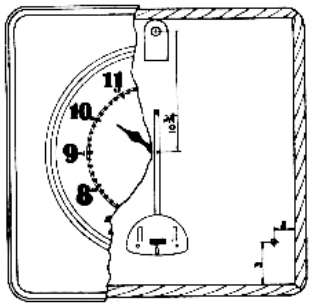


FIG. 1 - INSTALLATION

REMOVE PENDULUM BLOCKING SCREWS AND STORE IN CASE FOR USE WHEN RETURNING CLOCK.

BEFORE FASTENING TO WALL PLUMB CASE WITH PENDULUM AT REST. PLUMB SO THAT RAISED CENTER LINE ON PENDULUM IS DIRECTLY IN LINE WITH MARK ON BACK OF CASE. NOTE THAT CLOCK BEATS EVENLY. ALWAYS FASTEN PENDULUM TO BACK OF CASE BEFORE REMOVING CASE FROM WALL.

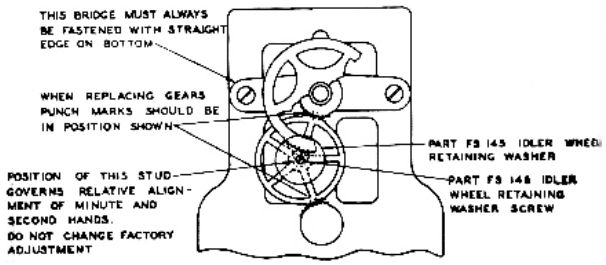
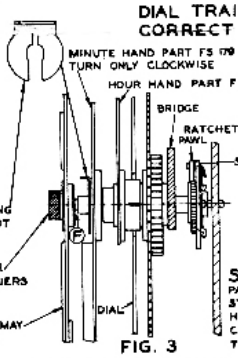


FIG. 2
DIAL TRAIN GEARING - SHOWING CORRECT RELATION OF TEETH

SWEEP SECONDS PARTS THAT MAY BE ORDERED FROM FACTORY

FS 145 IDLER WHEEL RETAINING WASHER
FS 146 " " " " SCREW
FS 172 MINUTE HAND " CLIP
FS 174 FRONT SECONDS ARBOR NUT
FS 180 SWEEP SECONDS HAND ASSEMBLY
OTHER MOV'T. PARTS EXCEPT SWEEP SECONDS PARTS AS LISTED ON W.U.T CO. STENCIL 1853 B



(PART FS 172) MINUTE HAND RETAINING CLIP INSERT WITH FINGERS DO NOT FORCE OR USE TOOL.

(PART FS 174) FRONT SECONDS ARBOR NUT MUST BE TIGHT USE CLOCK PLIERS DO NOT FORCE.

(PART FS 180) 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 SLIGHTLY.

FIG. 3
SIDE VIEW OF HAND ARBOR AND RATCHET ASSEMBLY

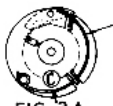


FIG. 3A
STATIONARY DISC REAR VIEW

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 (C) USI TWEEZERS.

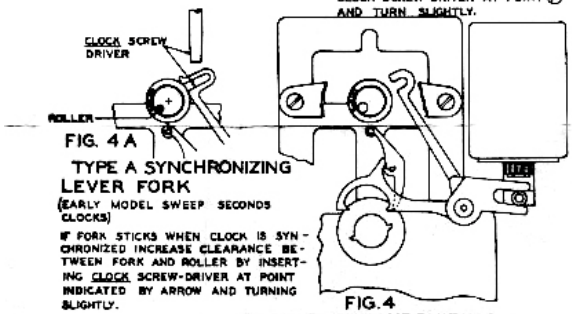


FIG. 4 A
TYPE A SYNCHRONIZING LEVER FORK
(EARLY MODEL SWEEP SECONDS CLOCKS)

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.

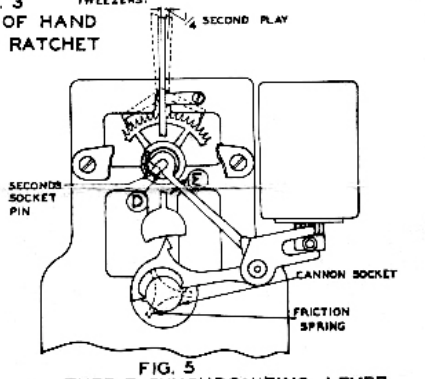
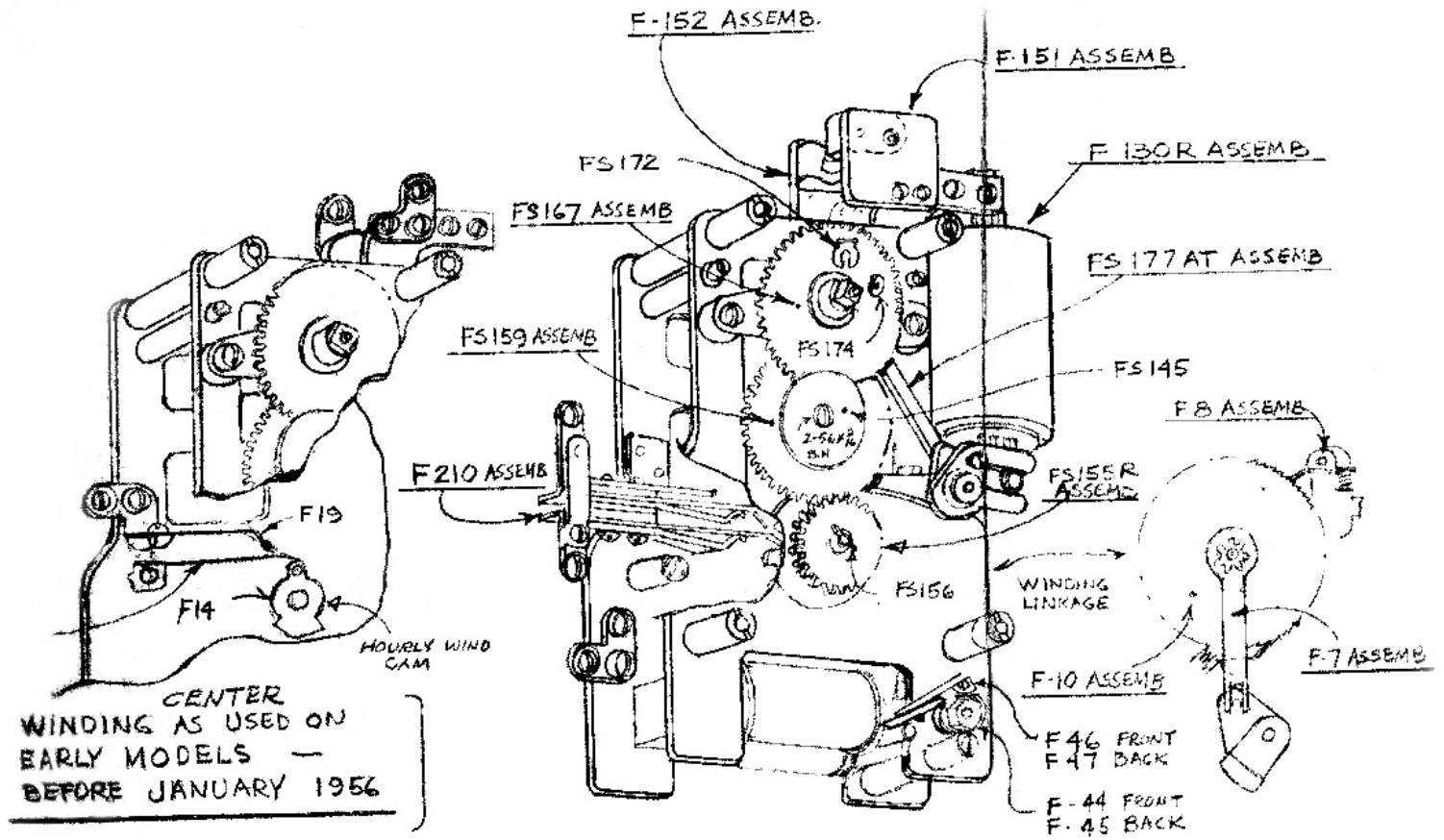


FIG. 5
TYPE B SYNCHRONIZING LEVER IN SYNCHRONIZED POSITION
(PRESENT SWEEP SECONDS CLOCKS)

NOTE NECESSARY CLEARANCE BETWEEN SECONDS SOCKET PIN AND SYNCHRONIZING FORK AT (D) WITH SYNCHRONIZING LEVER HELD CLOSED, SECOND HAND SHOULD HAVE ¼ SECOND PLAY ±. IF HAND HAS NO PLAY, PLACE PLIERS AT POINT (E) AND ADJUST FORK SLIGHTLY UPWARD, UNTIL ¼ SECOND PLAY IS OBSERVED.

SELF WINDING CLOCK COMPANY, INC.
NEW YORK

FORM 126 B - 500 - 1 - 40 (SUPERCEDES FORM 126)



CENTER WINDING AS USED ON EARLY MODELS — BEFORE JANUARY 1956

NOTE:
STANDARD "F" MOVEMENT PARTS ARE SUPPLEMENTED BY THIS GROUP OF MAINTENANCE SPARE PARTS (VIBRATOR WIND)
IN ORDERING REPLACEMENT PARTS GIVE SERIAL NUMBER OF MOVEMENT FOR WHICH PARTS ARE ORDERED