

SCHEDULE OF PARTS
STYLE "F" MINUTE
AND
STYLE "F" (H-SECONDS)
SYNCHRONIZED
MOVEMENTS

SELF WINDING CLOCK COMPANY
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BROOKLYN, N. Y.

THIS booklet is for the guidance of Clock Repair Men employed in the Time Service Department of the Western Union Telegraph Company.

The schedule and illustrations include all parts for:

Style "F" minute synchronized movements,
and

Style "F" (H-seconds) synchronized movements.

When ordering, each part should be designated by the number shown on illustrations, pages 6 and 7. This will insure prompt and accurate filling of orders by the Self Winding Clock Company and result in a saving of time and correspondence.

Style "F" Minute and Style "F" (H-Seconds) Synchronized Movement Parts

- 1 Suspension Spring, .003" thick (1-A Steel Spring, 1-B top and bottom brass Clamps (4 required), 1-C Brass Rivets (6 required), 1-D Pin).
- 2 Pin for suspension spring stud.
- 3 Bracket (3-A Casting, 3-B Stud, 3-C Shoulder Studs).
- 4 Escape Wheel, Arbor and Pinion (4-A Escape Wheel, 4-B Hub, 4-C Pinion, 4-D Arbor).
- 5 Center Arbor, with center wheel mounted (5-A Center Wheel, 5-B Hub, 5-C Arbor).
- 6 Third Wheel, Arbor and Pinion (6-A Third Wheel, 6-B Hub, 6-C Pinion, 6-D Arbor).
- 7 Winding Lever (closed end) with Pawl, Spiral Spring and Stud (7-A Lever Punching, 7-B Bushing, 7-C Stud, 7-D Pawl, 7-E Spiral Spring, 7-F Wire Pin).
- 8 Backstop Pawl, with Spiral Spring and Support (8-A Punching, 8-B threaded Bushing, 8-C Stud, 8-D Pawl, 8-E Spiral Spring, 8-F Wire Pin).

See illustrations on pages 6 and 7.

- 9 $\frac{5}{16}$ " No. 2-56 Screw for No. 8.
- 10 Ratchet Wheel complete, with Arbor and Pinion (10-A Wheel, 10-B Hub, 10-C Pinion, 10-D Arbor).
- 11 Pallet, Arbor and Crutch Wire (11-A Pallet, 11-B Arbor, 11-C Crutch Wire).
- 12 Pallet Arbor Buttons (2 required), (12-A Punchings, 12-B Steady Pins).
- 13 $\frac{5}{16}$ " No. 5-40 Screws for No. 12 (2 required).
- 14 Center winding brass contact Sector, with Bushing and Pin (14-A Sector Punching, 14-B Bushing, 14-C Steel Pin).
- 15 Center winding contact Support and Binding Post (15-A Punching, 15-B Binding Post).
- 16 Flat fibre Insulators (4 required); one for part 15, one for 30, one for 76 and one for 77.
- 17 Center arbor Pin for engaging winding sector.
- 18 Knock-a-way Piece.
- 19 Top center winding Contact, with Platinum (19-A Punching, 19-B Platinum).
- 20 Seconds arbor Nut.
- 21 Bottom center winding Contact, with Platinum (21-A Punching, 21-B Platinum).

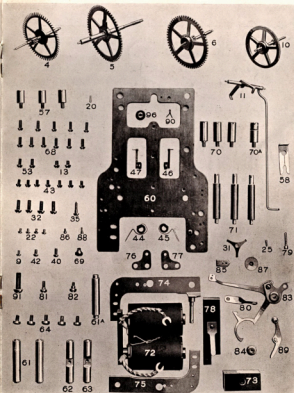
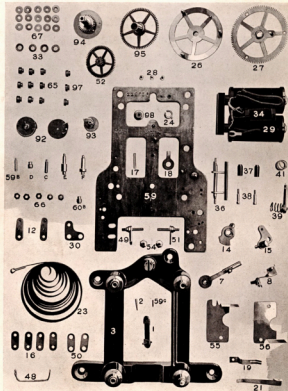
See illustrations on pages 6 and 7.

- 22 $\frac{1}{8}$ " No. 2-56 Screws (4 required); one for part 19, one for 21, one for 46 and one for 47.
- 23 Mainspring, .008" thick, $\frac{7}{32}$ " wide.
- 24 Mainspring Hub, with Slot and Pin (24-A Hub, 24-B Pin).
- 25 Pin for center Arbor to engage mainspring Hub.
- 26 Mainspring Barrel, with Studs (26-A Punching, 26-B Hub, 26-C 3 studs, 26-D Pin).
- 27 Mainspring barrel Wheel, with knock-away Pin (27-A Punching, 27-B Hub, 27-C Pin).
- 28 Brass Nuts for No. 27 (3 required).
- 29 Motor Magnets (4.5 Ohms), complete with Yoke (29-A Magnet Cores (2 required), 29-B Flanges (4 required), 29-C Winding Wire, 29-D Magnet Covering (2 required), 29-E Connecting Clip (1 required), 29-F Wire Covering (2 required), 29-G Yoke, 29-H 2 $\frac{3}{8}$ " No. 10, 32 F. H. Screws).
- 30 Motor magnet Binding Post.
- 31 Minute Hand friction Spring.
- 32 $\frac{3}{8}$ " No. 6-32 Screws (4 required) for fastening winding magnets to front and back plates.
- 33 Washers for No. 32 (4 required).

See illustrations on pages 6 and 7.

- 34 Shunt (65 Ohms) (34-A Spool, 34-B Resistance Wire, 34-C Shunt Covering).
- 35 $\frac{1}{2}$ " No. 4 R. H. Wood Screw for fastening shunt.
- 36 Winding Armature complete (36-A Armature Iron, 36-B small brass Punching, 36-C large brass Punching, 36-D Shaft, 36-E Pin).
- 37 Hard rubber Insulators for armature (2 required).
- 38 Shoulder Screws for armature rubber insulators (2 required).
- 39 Top banking Spring and Support (39-A Spring, 39-B Brass Punching, 39-C $\frac{3}{16}$ " No. 4-40 Screw, 39-D Washer).
- 40 $\frac{1}{4}$ " No. 4-40 Screw, for fastening No. 39 to pillar.
- 41 Bottom banking Spring.
- 42 $\frac{3}{16}$ " No. 4-40 Screw, for fastening No. 41 to pillar.
- 43 $\frac{3}{16}$ " No. 4-40 Screws (7 required); one for part 15, one for 30, one for 55, two for 56, one for 76 and one for 77.
- 44 Front Spiral Motor Contact, with Platinum (44-A Punching, 44-B Platinum).

See illustrations on pages 6 and 7.



Group of Parts Style "F" Minute and Style "F" (H-Seconds) Synchronized Movements

- 45 Back Spiral Motor Contact, with Platinum (45-A Punching, 45-B Platinum).
- 46 Front Plate Motor Contact, with Platinum Pin (46-A Punching, 46-B Platinum Pin).
- 47 Back Plate Motor Contact, with Platinum Pin (47-A Punching, 47-B Platinum Pin).
- 48 Spiral motor contact Connecting Band.
- 49 Front spiral motor contact Stud, with Support (49-A Punching, 49-B Stud).
- 50 Flat fibre Insulators (two required); one for part 49 and one for 51.
- 51 Back spiral motor contact Stud, with Support (51-A Punching, 51-B Stud).
- 52 Minute Wheel with Pinion (52-A Minute Wheel, 52-B Pinion).
- 53 $\frac{1}{4}$ " No. 4-40 Screws (2 required); one for part 49 and one for 51.
- 54 Large brass hexagon Nuts for spiral motor contacts (2 required); one for part 49 and one for 51.
- 55 Front Dust Cap Punching.
- 56 Back Dust Cap Punching.
- 57 Pillars for dust cap punchings (3 required); one for part 55 and two for 56.
- 58 Bracket Clamps.

See illustrations on pages 6 and 7.

- 59 Front Plate complete with Studs (59-A Plate Punching, 59-B Stud for latch pawl, 59-C Backstop Pin for synchronizing lever, 59-D Bushing for armature shaft, 59-E Stud for minute wheel, 59-F Stud for synchronizing lever, 59-G Backstop Pin for latch pawl).
- 60 Back Plate (60-A Plate Punching, 60-B Bushing for armature shaft).
- 61 Plate Pillars, plain (3 required) (61-A with longer tenon, used only for synchronized movement).
- 62 Plate Pillar, cut out for top banking spring support.
- 63 Plate Pillar, cut out for bottom banking spring.
- 64 Plate Pillar Screws (5 required); two for front and three for back.
- 65 Rubber Bushing No. 2, with thin shoulder (9 required); one for part 15, two for 30, one for 49, one for 51, two for 76 and two for 77.
- 66 No. 4-40 small brass Nuts (5 required); one for part 15, two for 49 and two for 51.
- 67 Small brass Washers (15 required); two for part 15, two for 30, one for 41, one for 49, one for 51, four for 73, two for 76 and two for 77.

See illustrations on pages 6 and 7.

- 68 5/16" No. 4-40 Screws (11 required); one for part 15, two for 30, four for 73, two for 76 and two for 77.
- 69 Shoulder Screw for fastening synchronizing bracket to back plate.
- 70 Dial Pillars (4 required) (70-A with slot for dust cap).
- 71 Bracket Pillar Screws (3 required).
- 72 Synchronizing Magnets (12 Ohms) complete with Yoke (72-A Magnet Cores (2 required), 72-B Flanges (4 required), 72-C Winding Wire, 72-D Magnet Covering (2 required), 72-E Connecting Clips (2 required), 72-F Wire Covering (2 required), 72-G Yoke, 72-H 3/8" No. 10-32 F. H. Screws (2 required).
- 73 Cast iron Synchronizing Magnet Support.
- 74 Back Synchronizing Frame with Stud (74-A Punching, 74-B Stud).
- 75 Front Synchronizing Frame.
- 76 Front Binding Post for Synchronizing Frame.
- 77 Back Binding Post for Synchronizing Frame.

See illustrations on pages 6 and 7.

- 78 Synchronizing Armature with throw back spring (78-A Armature, 78-B Spring, 78-C Escutcheon Pin).
- 79 Synchronizing Armature Stud Set Screw.
- 80 Synchronizing Lever Connecting Piece (80-A Punching, 80-B Bushing).
- 81 Synchronizing Armature Connecting Piece Shoulder Screw.
- 82 Synchronizing Lever Connecting Piece Shoulder Screw.
- 83 Minute Synchronizing Lever complete (83-A Large Punching, 83-B Small Punching, 83-C Bushing, 83-D 3/16" No. 4-40 Screw).
- 84 Synchronizing Lever Stud Nut.
- 85 Seconds Synchronizing Lever "V" Piece, used for seconds synchronizer only.
- 86 Screw for fastening "V" piece to synchronizing lever.
- 87 Seconds Synchronizing Lever Roller, used for seconds synchronizer only.
- 88 Synchronizing Lever Roller Shoulder Screw.
- 89 Synchronizing Latch (89-A Punching, 89-B Bushing, 89-C Pin).

See illustrations on pages 6 and 7.

- 90 Cotter Pin for synchronizing latch stud.
- 91 $\frac{5}{8}$ " No. 10-32 Screw for fastening synchronizing magnets to yoke support.
- 92 Stationary Disc complete for style "H" synchronizer (92-A Disc, 92-B Bushing, 92-C Ratchet Pawl, 92-D Fastening Pin for pawl, 92-E spring engaging Pin on pawl, 92-F Spring, 92-G Escutcheon, 92-H Retaining Wire on disc, 92-I Set Screw).
- 93 Heart-shape Seconds Socket complete for style "H" synchronizer (93-A Ratchet Disc, 93-B Steel Cams, 93-C Brass Sleeve).
- 94 Cannon Socket complete (94-A Disc, 94-B Steel Pin, 94-C Cam, 94-D Minute Pinion, 94-E Brass Rivet, 94-F Sleeve).
- 95 Hour Wheel complete (95-A Hour Wheel, 95-B Sleeve).
- 96 Center arbor Nut.
- 97 Hard rubber Bushing No. 1 with thick shoulder (3 required); one for part 15, one for 49 and one for 51.
- 98 Minute wheel Stud Nut.

See illustrations on pages 6 and 7.