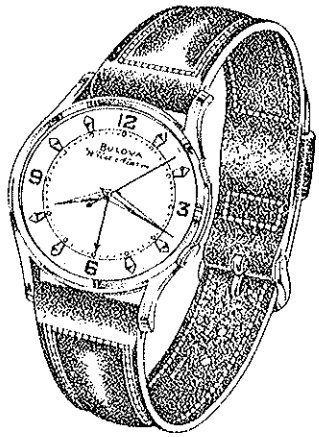
Servicing the
BULOVA WRIST ALARM WATCH
Model 11 AERC 6/58



THE BULOVA MODEL 11 AERC WRIST ALARM WATCH is constructed so that only one mainspring furnishes the power for the alarm and the regular time mechanism of the watch. A simple control device, located on the barrel arbor, allows the release of only two turns of the ratchet wheel when the alarm goes off. Construction of this watch is further simplified by the direct drive of the 4th wheel which also acts as sweep second pinion.

This technical bulletin for servicing the Bulova Wrist Alarm is divided into three separate parts: dial side, movement side and final assembly. The illustration showing a blow-up of all the parts involved in disassembly and assembly, with special emphasis on the parts of the alarm mechanism, is centered so that each part mentioned in the disassembly or assembly of this movement can be referred to in the drawing. If the step by step procedure which follows is carefully noted, service of this watch should present no problems.

ALARM WRIST WATCH

Model 11 AERC

DISASSEMBLY

SEE CENTER ILLUSTRATION

1. Remove movement from case.
2. Remove all hands including alarm hand.
3. Remove dial and tighten dial screws.
4. Remove balance assembly.
5. Remove pallet bridge and pallet.

Caution: When letting off power, maintain control by braking train wheels.

DIAL SIDE

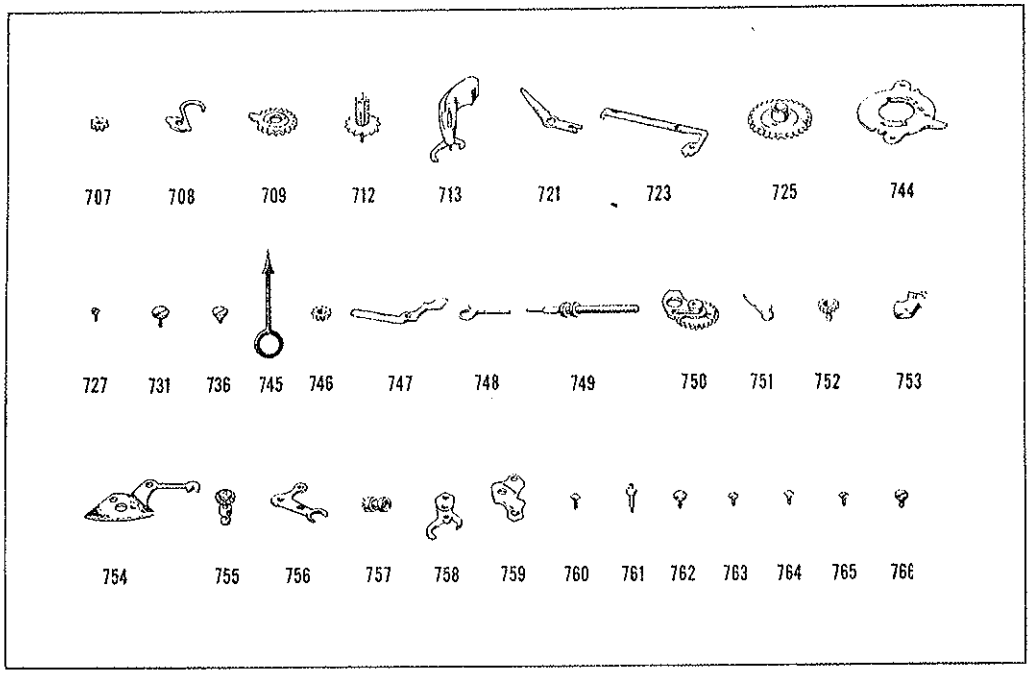
6. Remove two screws (763) and alarm release bridge (744).
7. Lift off alarm release wheel (725) and hour wheel.
8. Remove minute wheel and wig wag setting wheel (752).
9. Remove two screws (765) and alarm yoke bridge (754).
10. Remove intermediate alarm setting wheel (746), alarm clutch lever spring (748) and alarm clutch lever (747).
11. Remove screw (762) and automatic alarm lever (723).
12. Remove screw (736) and alarm stop lever (721).
13. Loosen alarm setting lever screw (761) and remove alarm setting lever (753), alarm setting stem (749) and crown (706), alarm clutch wheel (757).
14. Loosen setting lever screw and remove setting lever, stem and crown.
15. Remove two yoke screws and remove yoke bridge, clutch lever spring, clutch lever, setting wheel, clutch wheel and winding pinion.
16. Remove cannon pinion.

MOVEMENT SIDE

17. Remove ratchet wheel screw and ratchet wheel.
18. Remove screw (731) and alarm winding control wheel (709).
19. Lift off alarm winding wheel (707).
20. Remove screw (730) and stop work spring (708).
21. Remove two screws (760) and intermediate rocker bridge (759).
22. Disengage carefully and remove intermediate alarm wheel rocker spring (751).
23. Remove intermediate alarm wheel rocker (750).
24. Remove two screws and train bridge. Lift out 4th wheel, 3rd wheel and escape wheel.
25. Remove two screws and barrel bridge. Lift out barrel, hammer (713) and alarm escape wheel (712).
26. Remove crown wheel screw (left thread), crown wheels, and crown wheel center.
27. Remove three screws and crown wheel bridge. Remove setting lever screw and alarm setting lever screw (761), also intermediate crown wheel staff (755).
28. Remove screw (766) and intermediate crown wheel spring (756).
29. Remove screw and bearing plate.
30. Remove two screws and center wheel bridge. Lift out center wheel.

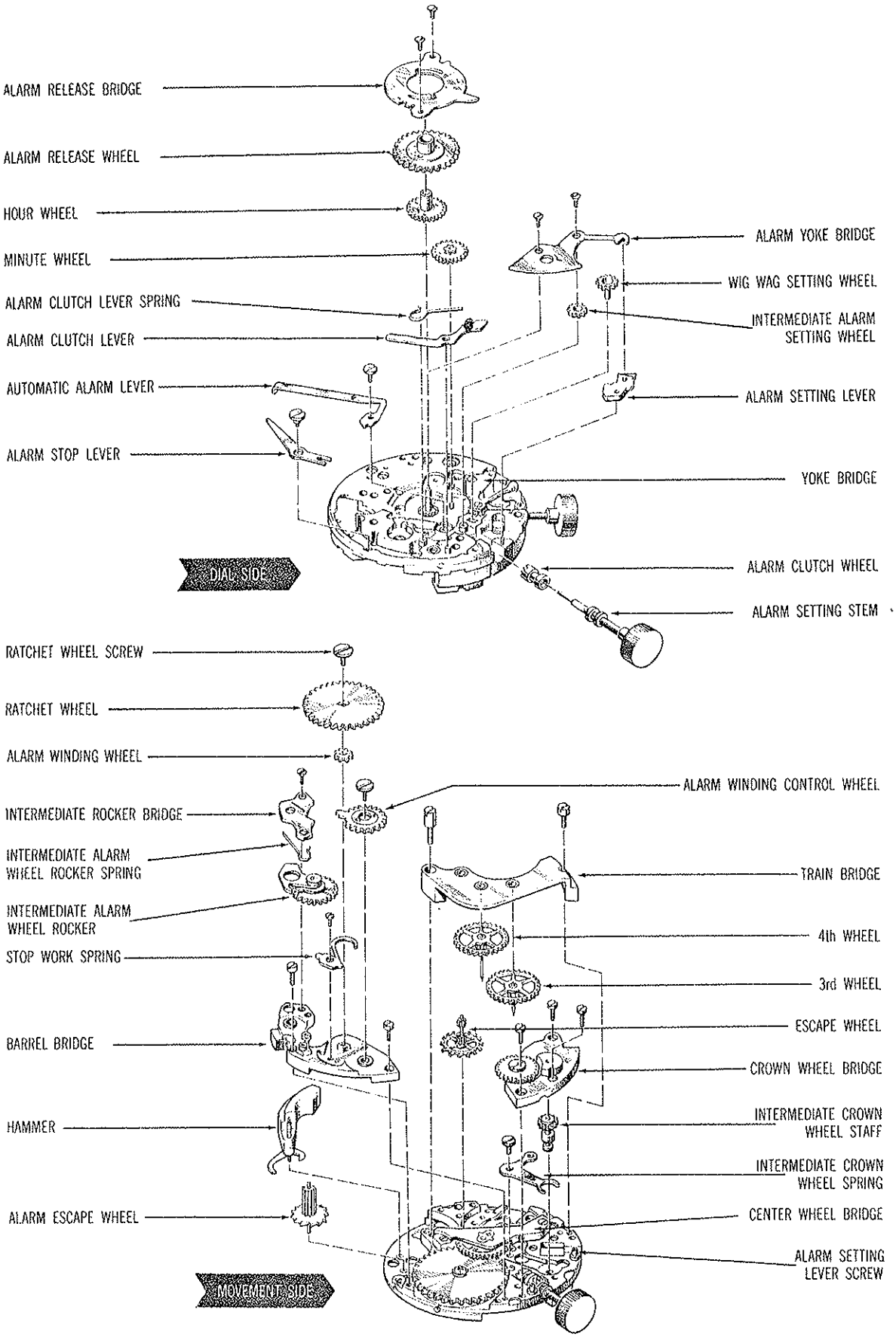
ALARM PARTS OF BULOVA WRIST ALARM WATCH

Model 11 AERC



*706 Alarm Setting Crown
707 Alarm Winding Wheel
708 Stop Work Spring
709 Alarm Winding Control Wheel
712 Alarm Escape Wheel
713 Alarm Hammer Complete
721 Alarm Stop Lever
723 Automatic Alarm Lever (Disconnector)
725 Alarm Release Wheel
727 Screw for Alarm Stop Spring
731 Screw for Alarm Winding Control Wheel
736 Screw for Alarm Stop Lever
*738 Jewel — Upper and Lower Alarm Escape Wheel
*739 Jewel —Upper Alarm Hammer
*740B Bushing — Lower Alarm Hammer
744 Alarm Release Bridge
745 Alarm Setting Hand
746 Intermediate Alarm Setting Wheel
747 Alarm Clutch Lever
748 Alarm Clutch Lever Spring
749 Alarm Setting Stem
750 Intermediate Wheel Rocker for Alarm, Mounted
751 Intermediate Alarm Wheel Rocker Spring
752 Wig-Wag Setting Wheel
753 Alarm Setting Lever
754 Alarm Yoke Bridge
755 Intermediate Crown Wheel Staff, Mounted
756 Intermediate Crown Wheel Spring
757 Alarm Clutch Wheel
758 Alarm Anchor
759 Intermediate Rocker Bridge
760 Screw for Intermediate Rocker Bridge
761 Screw for Alarm Setting Lever
762 Screw for Disconnector
763 Screw for Alarm Release Bridge
764 Screw for Alarm Anchor
765 Screw for Alarm Yoke Bridge
766 Screw for Intermediate Crown Wheel Spring

* Not shown in illustration.


ALARM RELEASE BRIDGE
ALARM RELEASE WHEEL
HOUR WHEEL
MINUTE WHEEL
ALARM CLUTCH LEVER SPRING
ALARM CLUTCH LEVER
AUTOMATIC ALARM LEVER
ALARM STOP LEVER
ALARM YOKE BRIDGE
WIG WAG SETTING WHEEL
INTERMEDIATE ALARM SETTING WHEEL
ALARM SETTING LEVER
YOKE BRIDGE
ALARM CLUTCH WHEEL
ALARM SETTING STEM
DIAL SIDE
RATCHET WHEEL SCREW
RATCHET WHEEL
ALARM WINDING WHEEL
INTERMEDIATE ROCKER BRIDGE
INTERMEDIATE ALARM WHEEL ROCKER SPRING
INTERMEDIATE ALARM WHEEL ROCKER
STOP WORK SPRING
BARREL BRIDGE
HAMMER
ALARM ESCAPE WHEEL
ALARM WINDING CONTROL WHEEL
TRAIN BRIDGE
4th WHEEL
3rd WHEEL
ESCAPE WHEEL
CROWN WHEEL BRIDGE
INTERMEDIATE CROWN WHEEL STAFF
INTERMEDIATE CROWN WHEEL SPRING
CENTER WHEEL BRIDGE
ALARM SETTING LEVER SCREW
MOVEMENT SIDE

ALARM WRIST WATCH

Model 11 AERC

ASSEMBLY

SEE CENTER ILLUSTRATION

MOVEMENT SIDE

1. Insert center wheel in pillar plate and screw down center wheel bridge.
2. Oil upper center wheel pivot and screw down bearing plate.
3. Screw (766) down intermediate crown wheel spring (756).
4. Insert setting lever screw, alarm setting lever screw (761) and intermediate crown wheel staff (755).
5. Position crown wheel bridge and tighten three screws.
6. Replace crown wheel center, crown wheels and screw. Oil between crown wheels and under screw.
7. Assemble and lubricate mainspring barrel.
8. Position mainspring barrel, alarm escape wheel (712) and hammer (713). Screw down bridge with two screws.
9. Replace escape wheel, 3rd and 4th wheels. Screw down train bridge with two screws.
10. Insert intermediate alarm wheel rocker (750) and position intermediate alarm wheel rocker spring (751).
    Note: Hold curved part of spring in position by screwing one side of intermediate rocker bridge (759) over it.
11. Complete screwing down of the intermediate rocker bridge (759).
12. Position and screw down stop work spring (708).
13. Oil barrel arbor pivots and position alarm winding wheel (707) on square of barrel arbor.
14. Oil center and screw down alarm winding control wheel (709).
15. Replace ratchet wheel and screw.

DIAL SIDE

16. Oil lower center wheel bearing and replace cannon pinion.
17. Assemble and oil regular winding and setting mechanism.
18. Replace alarm clutch wheel (757), alarm setting stem (749) and crown and screw alarm setting lever (753) in position. Oil stem square, setting lever pin and slot of intermediate crown wheel staff (755).
19. Oil all lower pivots of wheel and alarm trains.
20. Oil and screw down alarm stop lever (721).
21. Screw down automatic alarm lever (723).
22. Position intermediate alarm setting wheel (746), alarm clutch lever (747) and alarm clutch lever spring (748).
23. Screw down alarm yoke bridge (754) with two screws.
24. Position minute wheel, wig wag setting wheel (752), hour wheel and alarm release wheel (725). Screw down alarm release bridge (744) with two screws.

FINAL ASSEMBLY

25. Replace pallet and bridge.
26. Oil all upper bearings and pallets. Also oil under alarm release bridge and buttons on hour wheel. (Use regular watch oil on pivots of alarm escape wheel and hammer, also on vertical pins of alarm hammer anchor.)
27. Replace and oil balance assembly.
28. Replace dial and stake alarm hand.
29. Turn cannon pinion backwards until alarm hand turns with it. Stop at 9:00 o'clock.
30. Stake hour hand over alarm hand and then position minute hand.
31. Stake sweep second hand. Be sure hour hand does not bind and that hands have proper clearance.
32. Replace movement in case.