

**NAWCC Field Suitcase Workshop F301 Overview**  
**Basic Pocket Watch**

This is a pocket watch course for entry-level students wanting to learn the fundamentals of watch repair. It contains hands-on practice in component definition, part handling, disassembly, cleaning, assembly, minor troubleshooting and testing. Most students should have time to work on more than one watch during the four-day session.

**Pocket Watch Movement Requirements for F301**

**IMPORTANT:** The only type watch the student can use in this class is a size 16-18, 7-17 jewels, American made Elgin, Waltham, Illinois or Hamilton operating (it must be running) pocket watch. Some watch movements from these companies were NOT made in American and they are not acceptable for this class. These watch movements can be purchased at NAWCC Regional or Chapter meetings. If you have any questions about the movement for this class you can call your Coordinator, FSW Administrator or your Instructor.

**Prerequisite:** There is not a prerequisite for this course.

**F301 Pocket Watch Instruction**

- Pocket Watch Introduction
- Why Disassemble a Watch?
- Instructor to Explain Students' Watches & their Uniqueness
- Student to Study Their Watch and Understand Operation
- Remove Movement From The Case.
- Disassemble Hands And Dial.
- Disassemble Dial Train
- Disassemble Winding Mechanism
- Remove Spring Barrel Bridge
- Remove Mainsprings from Spring Barrel
- Disassemble Watch Bridges and Plates
- Clean Movement with Old Fashion Spinning Machine
- Identifying Watch Components
- Practice Assembly of the Wheels
- Assemble Spring Into Barrel
- Assemble Winding and Setting Mechanism
- Oiling Watch
- Escapement
- Review other Procedures not Taught in F301

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### **Tool List F301 Basic Pocket Watch Repair**

These tools are referenced with a Timesavers (TS) part number for identification only. It is highly recommended for the student to shop around at other parts vendors.

#### **Required Student Supplied Tools**

1. Screwdriver Set; TS #16971 or equivalent
2. Peg wood; TS #10462
3. Tweezers; TS #19276; 3c or #5
4. Oilier; TS #23295 or # 13248
5. Loupe / Magnifier 3 and 5 power or a visor with 5 power
6. Pliers; small chain & flat nose
7. Hand Remover; TS #15481 or #13427
8. Bench Blower; TS #15800 (This can be as simple as a baby bulb/syringe that is used to clean out nose matter. They are available at most drug stores.
9. Movement Holder (See picture)
10. Bench Plate (White Cardboard 14 x 10 inches) or TS #18228
11. Movement Cover (1qt Tupperware container or equivalent)
12. Bench Block; TS #13449
13. Pith wood; TS #10459
14. Bench Light & extension cord (Table top type light preferred as not all tables work for the clamp on type lights)
15. Oil Cup; TS #20045 or equivalent
16. A student made watch assembly bench: This bench is used by the student to sit on a standard tabletop to assemble their watch movement at eye level. The bench needs to be about 12" wide, 10" high, 18" deep, so assembly can be done on the 12" by 18" top. Sides will be 10" by 18", and the front & back will be 10" by 12". 3/4" plywood is a good choice of material. A back in the box made from 1/4" plywood will give stability so the box will not flex. As an alternative, a heavy duty child's chair could be used to sit on so that the work is at about shoulder level. Your lower arms will need to be supported to steady your hands and fingers while working on watches.

#### **Instructor Furnished Tools (as a minimum)**

- |                              |                       |
|------------------------------|-----------------------|
| 1. Stake Set                 | 10. Oil Stone         |
| 2. Hammer                    | 11. Let Down Keys     |
| 3. Cleaner machine           | 12. Mainspring Winder |
| 4. Cleaning & rinse solution | 13. Demagnetizer      |
| 5. Timing Machine            | 14. Oil               |
| 6. Power distribution cord   | 15. Grease            |
| 7. Extra Jewel Screws        | 16. One Dip           |
| 8. Set Of Student Tools      | 17. Screw slot file   |
| 9. Screw Driver Sharpener    |                       |

#### **Coordinator to Furnish**

2 old fashion spinning machines for cleaning the pocket watch movements.

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- 1 Gallon L&R No Foam Watch Cleaning Solution
- 1 Gallon L&R Watch Rinse Solution #3. (Send receipts to Pam Tischler, the FSW Administrator, for reimbursement)

**Watch Movement Holders**

Refer to item #9 on the F301 Tool List.  
This is what you are looking for when purchasing a Watch movement holder. You may purchase any one of the three.

