

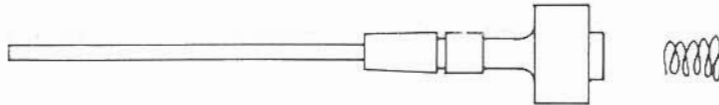
EC229 SENSOR REPLACEMENT

Kit Includes:

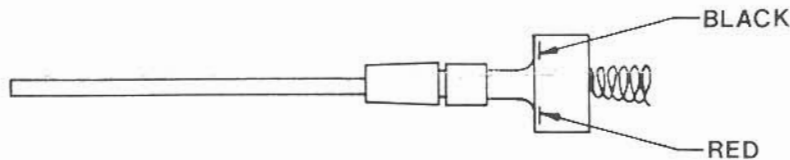
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|--------------------------|------------------------|
| 1 - EC229 Sensor | 3 - Screws #2 x 5/16" |
| 1 - Short Conical Spring | 2 - Screws #2 x 1" |
| 1 - Long Conical Spring | 1 - Screw 2-32 x 3/16" |

THE FOLLOWING INSTRUCTIONS APPLY TO IRONS HAVING METAL GROUND STRAPS

1. Attach short conical spring on sensor cover boss.



2. Remove barrel/nut and tip from soldering iron.
3. Remove the 3 outer screws from the flange and pull heater assembly from the handle.
4. Loosen ground strap from heating element flange.
5. Desolder red and black leads from old sensor.
6. Remove sensor from heater barrel.
7. Insert new sensor into heater barrel. (Note: Sensor lugs must be on side opposite ground strap).
8. Solder red and black wires to sensor lugs as shown:



9. Attach ground strap to heater element flange. Use small screws and hole nearest heater element barrel.
10. Reassemble iron and check for free travel of sensor with tip in place. Approximately 1/16" movement.

THE FOLLOWING INSTRUCTIONS APPLY TO UNITS WITH PLUG IN TYPE HEATING ELEMENTS

1. Remove barrel/nut and tip from soldering iron.
2. Remove two Phillips head screws (#1) from flange. - See Figure #1
3. Grasp heating element (#2) in one hand while holding black insulator (#3) and handle (#4) in other hand and pull heating element out.
4. Locate flat on strain relief (#5) where cord enters handle. This flat is aligned with the Weller logo. Press downward and forward with a flat screw driver until cord moves forward into handle. DO NOT PRY ON HANDLE.
5. Pull insulator (#3) sensor (#6) and cord (#7) out of handle.
6. Desolder red and black leads from old sensor.
7. Grasp sensor insulator (#3) and force sensor (#6) rearward approximately 3/4" until spring (#8) is disengaged from groove in sensor bushing.
8. Slide spring (#8) over end of sensor tube and remove spring. Remove sensor from black insulator and discard.
9. Remove the black cover from the new sensor by removing tape and pulling cover off. Discard tape and cover.

10. Bend the two soldering lugs at right angle toward the black sensor base.



11. Insert new sensor (#6) through insulator (#3).

12. Slide the long conical spring (#8) over the sensor tube (large opening end of spring toward insulator) and slide it rearward until it snaps into groove in the sensor bushing.

13. Solder black and red leads to sensor lugs, trim off excess lead protruding through solder joint.



14. Assuming the strain relief did not come off the cord, pull the cord through the handle so that the insulator with sensor can be worked into place. Align the sensor and insulator as shown in Figure 2 so that sensor leads are facing towards you. Rotate the handle so that the Weller logo is also toward you in the same plane. Guide the sensor and insulator into the handle, wiggling slightly to properly seat insulator. The sensor lugs should straddle the screw boss in the handle if positioning is correct. With the handle in one hand and the cord in the other, rotate the cord until the flat on the strain relief aligns with the handle stop bar under the Weller logo. Pull firmly until the strain relief snaps into place. (If this cannot be done, check for strain relief alignment or insulator alignment.) Replace heating element and flange screws. Check sensor for free movement with tip. There should be approximately 1/16" movement of the tip from spring action.

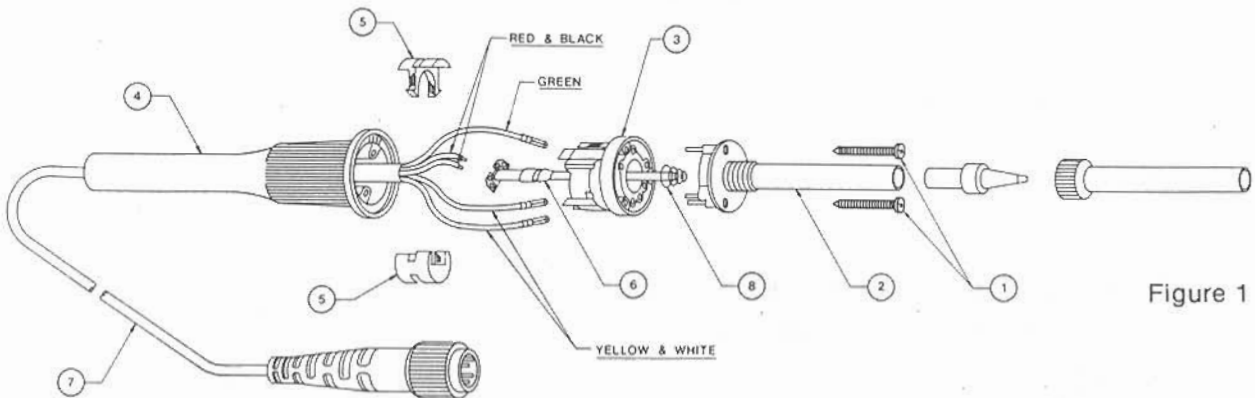


Figure 1

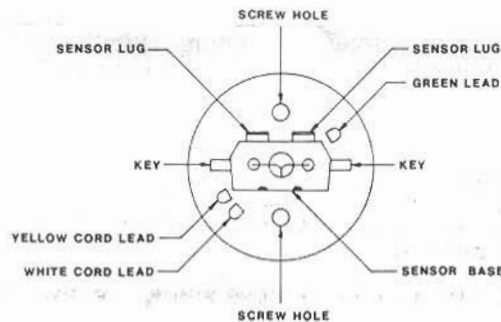


Figure 2

Sensor alignment in insulator as viewed from handle side of insulator. (Lead wires not shown).