

## Isocoil™ Assembly



**WARNING:** Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

### Description

The Isocoil assembly is an option for the Kinetix™ manual air spray and KVLP spray gun. This item must be ordered separately.

Isocoil assembly benefits:

- Provides the ability to spray conductive coatings (metallics)
- Compact and easy to install
- Can be retrofit to existing spray guns
- Light weight, maintains spray gun balance

### Installation

See Figure 1.

1. Remove the existing tubing/hose assembly from the spray gun. Refer to the *Kinetix Electrostatic Air Spray and KVLP Manual Spray Gun* manual for more information.

**NOTE:** If your spray gun uses a 1/4-in. fluid hose you will need to purchase the metal elbow fitting separately to complete the installation. Refer to *Parts* for ordering information.

2. Remove the metal elbow fitting (7) from the cable bracket (8).
3. Make sure that approximately 1/4 to 1/2 inch of tubing is sticking out of the top ferrule (3) of the Isocoil assembly.
4. Insert the male threaded end of the assembly into the fluid boss on the spray gun extension and hand tighten. Using a customer supplied crescent wrench, tighten the assembly into the extension an additional 1/4 to 1/2 turn.
5. Remove the two screws (9) that attach the cable bracket to the spray gun handle and gently pull the cable bracket away from the handle about 1/4 inch. Be careful not to disconnect the low-voltage cable from the multiplier connector inside the spray gun handle.
6. Insert the metal elbow fitting into the cable bracket and secure it with the two screws (6).
7. Insert the retainer cap (1) into the metal elbow fitting and hand tighten.
8. Secure the cable bracket to the handle using the two screws.
9. Using a customer supplied crescent wrench, finish tightening retainer cap of the assembly 1/4 to 1/2 turns.

## Repair

See Figure 1.

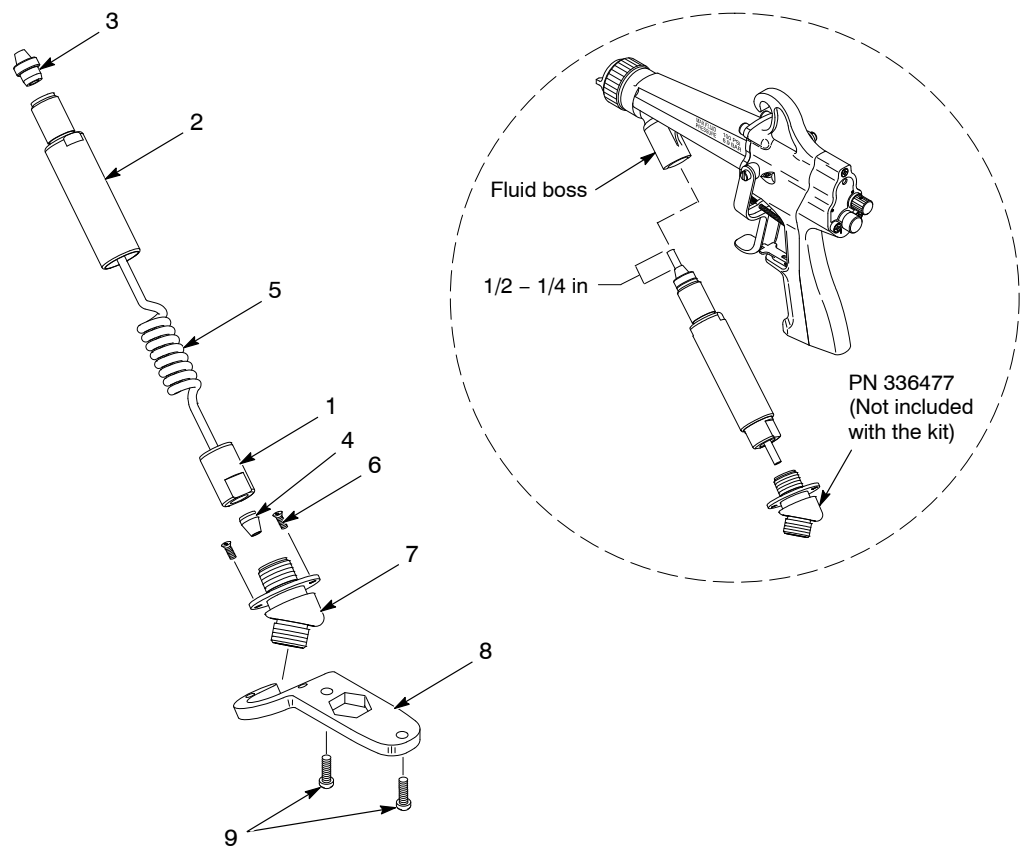
### ***Remove the Coiled Fluid Tube***

1. Loosen the retainer cap (1) at the bottom of the Isocoil assembly.
2. Remove the two screws (9) that attach the cable bracket (8) to the spray gun handle and gently pull the cable bracket away from the handle about  $\frac{1}{4}$  inch. Be careful not to disconnect the low-voltage cable from the multiplier connector inside the spray gun handle.
3. Continue to unscrew the retainer cap until it is completely detached from the metal elbow fitting (7).
4. Remove the two screws (6) to remove the metal elbow fitting from the cable bracket.
5. Unscrew the retainer housing (2) from the fluid boss on the spray gun extension.
6. Remove the retainer cap from the Isocoil assembly and remove the bottom ferrule (4) from the bottom fitting.
7. Pull the coiled fluid tube (5) out of the the retainer housing and remove the top ferrule (3).

### ***Install the Coiled Fluid Tube***

**NOTE:** It is recommended that new ferrules be used when installing a new coiled fluid tube.

1. Push the coiled fluid tube (5) into the retainer housing (2) until the tube extends beyond the threaded end by approximately  $\frac{1}{4}$  to  $\frac{1}{2}$  inch.
2. Slide the top ferrule (3) over the end of the tubing with the small tapered end facing out. The tubing should still extend beyond the top ferrule  $\frac{1}{4}$  to  $\frac{1}{2}$  inch. If not, push the coiled fluid tube further into the retainer housing.
3. Feed the opposite end of the coiled fluid tube into the internal tapered end of the retainer cap (1).
4. Slide the bottom ferrule (4) with the tapered end towards the male elbow fitting over the tube and push it into the retainer cap.
5. Attach the Isocoil assembly to the spray gun.



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Figure 1 Isocoil Assembly

- |                     |                      |                        |
|---------------------|----------------------|------------------------|
| 1. Retainer cap     | 4. Bottom ferrule    | 7. Metal elbow fitting |
| 2. Retainer housing | 5. Coiled fluid tube | 8. Cable bracket       |
| 3. Top ferrule      | 6. Screws            | 9. Screws              |

Parts

See Figure 1.

Item	Part	Description	Quantity	Note
	1031047	ISOCOIL ASSEMBLY, 0.250-in. OD x 0.093-in. ID, 24.5-in. long	1	
1	-----	• CAP, retainer, Isocoil	1	
2	-----	• RETAINER, housing, Isocoil	1	
3	336751	• FERRULE, 1/4-in. tube, low pressure hose, electrostatic		A
4	1031045	• FERRULE, 1/4-in. tube, low pressure hose, electrostatic, 0.625-in. long	1	A
5	1031046	• TUBE, coiled, 0.250-in. OD x 0.093-in. ID, PTFE	1	A
7	336477	ELBOW, 3/8-in. NPSM x 5/8-20 UN-2A	1	B
NOTE A: Recommended spare part.				
B: Elbow, part 336477, is required to install the Isocoil assembly on spray gun parts, 334715 and 334725. This elbow is not included with the assembly and must be ordered separately. If you are using spray gun, parts 334724 or 334728 the elbow is already included with the spray gun's fluid tube so you do not need to order the elbow.				

Issued 6/03

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