

ASSEMBLY INSTRUCTIONS

STATIC PROTECTION KIT



WARNING: PUMPING OR MIXING FLAMMABLE LIQUIDS CAN CREATE STATIC ELECTRICITY, WHICH CAN CAUSE EXPLOSION AND FIRE RESULTING IN INJURY OR DEATH. ALL CONTAINERS MUST BE METAL AND GROUNDED.

Part No. Applicable Model

A100835, A100838	TTS, STTS, TBS, PFS
A100836	BTS, HVDP
A101521, A101521-1	TTS, STTS, TBS, PFS
A100961	TMS Mixer

GROUND WIRE ASSEMBLY ATTACHMENT TO MOTORS

Motor Type: Electric Explosion Proof

Screw #10-32 plated nut onto exposed machine screw in motor housing. Attach #10 ring terminal from the end of the ground wire assembly to exposed machine screw in motor housing using #10-32 plated nut and #10 lock washer.

Motor Type: Air

Remove one of the Allen head set screws from the motor mount. Slide 1/4-20 x 5/8" round head machine screw through 1/4" ring terminal on Ground wire assembly. Thread 1/4-20 plated nut onto screw. Insert screw into hole on motor mount and tighten (do not over tighten). Using a 7/16" wrench, tighten 1/4-20 nut against the ring terminal.

ASSEMBLY FOR PUMPS

Step 1 - Place stainless steel hose clamp on end of grounded hose.

Step 2 - Slide grounded hose assembly over pump tube discharge spout. Tighten hose clamp. Note: grounded hose comes with ground wire assembly already attached.

Step 3 - Attach ground wire assembly to pump tube using #8 ring terminal and supplied 8-32 x 1/4" brass screw and brass lock washer.

Step 4 - Attach ground wire assembly to motor. Determine appropriate motor type and attach following the listed instructions.

Step 5 - Check electrical continuity between the clamp on the end of the ground wire assembly and the end of the grounded hose. The resistance must be one (1) ohm or less. If it is greater than one ohm, recheck all connections.

ASSEMBLY FOR MIXERS

Step 1 - Attach ground wire assembly to mixer tube using #8 ring terminal and supplied 8-32 x 1/4" brass screw and brass lock washer.

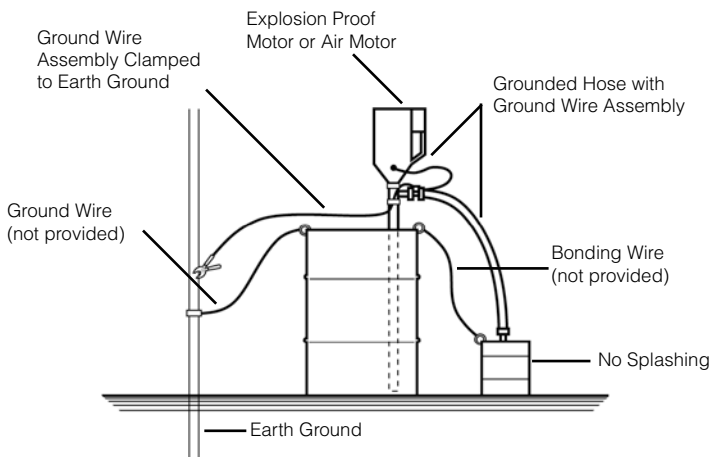
Step 2 - Attach ground wire assembly to motor. Determine appropriate motor type and attach following the listed instructions.

Step 3 - Check electrical continuity between the clamp on the end of the ground wire assembly and the mixer tube. The resistance must be one (1) ohm or less. If it is greater than one ohm, recheck all connections.

DRUM PUMP INSTALLATION

1. Install the pump and Static Protection Kit as described and shown.
2. Connect ground wire assembly to earth ground using supplied clamp.
3. Connect ground wire between drum and earth ground.
4. Connect ground wire between receiving container and earth ground (or use bonding wire to connect to drum).

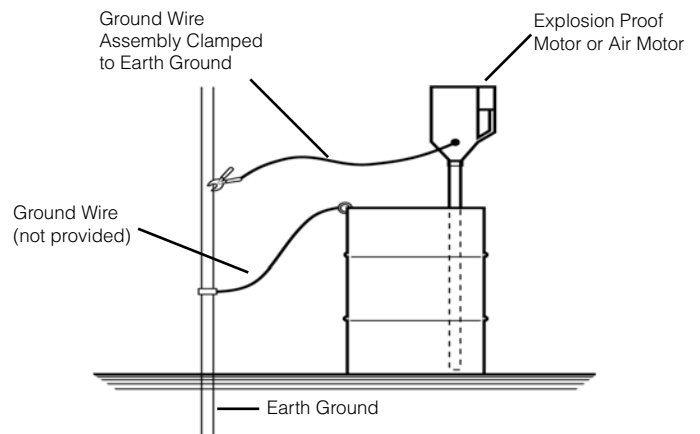
⚠ CAUTION - Check electrical continuity of all components before pumping. All should be one (1) ohm or less.



TUBE MIXER INSTALLATION

1. Install the mixer and Static Protection Kit as described and shown.
2. Connect ground wire assembly to earth ground using supplied clamp.
3. Connect ground wire between drum and earth ground.

⚠ CAUTION - Check electrical continuity of all components before mixing. All should be one (1) ohm or less.



OPERATION AND SAFETY PROCEDURES

- Use only explosion proof electric or non-electric air motors on stainless steel tubes with static protection kit to transfer flammable or combustible liquids.
- Area for use must comply with NFPA 30 guidelines for safe storage and use of flammable and combustible liquids.
- All containers and other equipment must be metal and grounded.
- Follow NFPA 77 guidelines for control of static electricity.
- Avoid splashing. Splash filling can create static electricity and is extremely hazardous.
- Fluid velocity must be 3 feet/second maximum (7 gpm in 1" hose).



FINISH THOMPSON INC.

921 Greengarden Road • Erie, PA 16501-1591 U.S.A.
Ph 814-455-4478 • Fax 814-455-8518
Email fti@finishthompson.com • www.finishthompson.com

Toll Free Service 1-800-888-3743
Part Number J102721, Rev. 3
Literature ID No. FT00-800C

