

# AQUILINE Foot Operated Switch

## WIRING

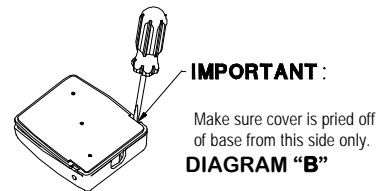
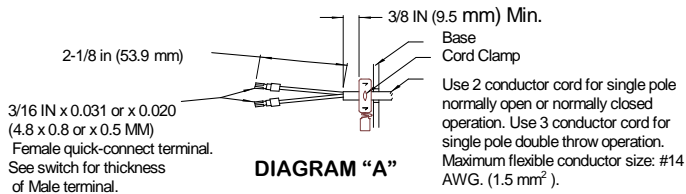
- ⚠ WARNING: TO AVOID PERSONAL INJURY, DO NOT USE THIS SWITCH ON MACHINERY WITH AN UNGUARDED POINT OF OPERATION.**

**⚠ READ WARNING STATEMENT** on reverse side of this page.

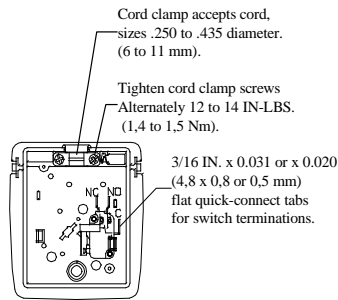
- When wiring up this device make sure **POWER IS OFF AND LINES ARE DEAD**.
- MAXIMUM FUSE RATING:** Amperage and voltage not to exceed nameplate rating – Quick Acting.
- Supply cord with flexible conductors (leads) to be prepared as shown. (See Diagram "A").  
Supply cord with prepared flexible conductors. Use special purpose crimping tools to apply female quick connect and when required, ring terminals to conductors.

**NOTE:** For metal Aquiline models, the cord must include a 4-1/2 in. (114mm) long green or for CE Marked foot switches, a green / yellow colored grounding conductor. Apply a #8 (4.4mm  $\varnothing$ ) ring type terminal. Attach to and tighten the protective earthing (grounding terminal with lockwasher) screw 11-16 in.-lbs. (1.2 to 1.8 Nm).

**NOTE:** For CE Marked foot switches, a cord guard or bend relief must be provided that extends beyond the cord clamp at least five times the overall diameter of the flexible cord.

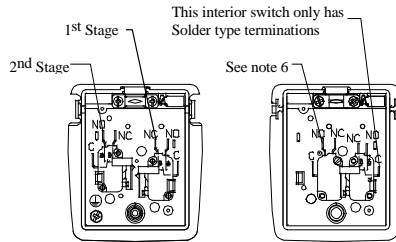


- Remove cover from base by prying the cover with a flat blade screwdriver on the side shown in Diagram "B".  
**NOTE:** For metal Aquiline models, remove hinge screws.
- Loosen or remove cord clamp screws, insert cord and connect inner conductors (leads) of cord to appropriate switch terminals. (See Diagram "C"). **NOTE:** For metal Aquiline models, remove plastic insulation from switch before connecting cord leads to terminals.



971-S (SPDT)

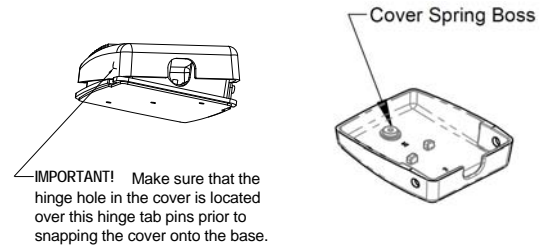
**DIAGRAM "C"**



972-S (2 STAGE)

974-S (DPDT)

**DIAGRAM "D"**



- The circuit designations shown in Diagram "C" are at assembly. For 974-S only, the left side interior switch is reverse actuated in the foot switch housing. For example, the normally closed terminal (NC) marking molded into the switch body will provide a normally open circuit when the interior switch is assembled in the foot switch housing.
- Re-assemble cover to base by snapping onto hinge tabs as shown in Diagram "D". Cover return spring must be centered on the cover spring boss.

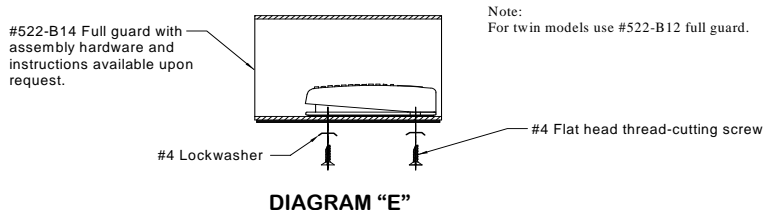
**NOTE:** For metal Aquiline models; replace plastic insulation on switch then reassemble cover with hinge screws being sure the cover return spring is centered on the cover spring boss.

- CLEANLINESS** must be observed during installation and in use.  
on a **REGULAR BASIS**, inspect foot switch frequently to guard against wear, damage, unlawful alterations or removal of guards, or for unusual enclosure deterioration and the like. Inspect the entire length of the connecting cord (or wiring system) from where it enters the foot switch to the equipment it's wired up to for wear, loose strain relief connections and the like. **DO NOT OPERATE** the foot switch if any of the above is observed or if the nameplate or warning label has been obscured or removed.  
It is **IMPERATIVE** that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance and that this information be made available to the end user, operators, maintenance personnel and to others responsible for the proper installation and safe operation of this foot switch.

**ADDITIONAL COPIES** of this information sheet and warning labels are available upon request.

## MOUNTING

- Aquiline foot operated switches are furnished with a non-skid base pad and can be mounted with the base pad attached.
- Use 2 number 4 thread-cutting (self-tapping) screws and two number 4 lock washers when mounting foot switch to full guard.  
(See Diagram "E") For metal Aquiline models, remove 2 number 4 baseplate screws and use for mounting along with two number 4 lock washer. Also, place two number 6 lock washer, furnished with guard, between the bottom of the metal Aquiline baseplate inside of guard and check for continuity between the foot switch enclosure grounding lead and guard.



# **WARNING**

Form 997-J Rev. M

## **USE OF FOOT CONTROLS ON MACHINERY LACKING EFFECTIVE POINT OF OPERATION SAFEGUARDS CAN CAUSE SERIOUS INJURY TO THE OPERATOR.**

Foot controls should only be used where “Point of Operation” and “Pinch Point” guarding devices have been properly installed and are utilized so that it is **IMPOSSIBLE** for the operator’s hands or fingers to remain within the point of operation during the machine cycle.

**IT IS THE RESPONSIBILITY OF THE USER** to determine the suitability of a foot control for the user’s intended use and to determine that the foot control chosen by the user and wiring up and installation of the same will comply with all Federal, State and Local safety and health regulations and codes.

Due to the unlimited variety of business equipment, instruments, machines and vehicles on which our foot switches are used, the thousands of standards, and customers’ varying interpretations of the standards covering these applications, it is impossible for **LINEMASTER** personnel to be experts on standards and requirements for all these products. We offer over 150 stock foot switch models and guards plus a large variety of specials, which are made to customer specifications. We can advise you what is available in our foot switch line and you can examine models to see what meets your needs. We believe our customers’ engineering departments should be the qualified experts in their own product field and know what specifications or details they may require in a foot switch for their equipment. If one of our stock models meets their needs, they can specify it, or possibly ask for a modification of a stock model if that is required.

## **SHOULD YOU HAVE ANY QUESTIONS OR IF ANY OF THE ABOVE WARNING IS UNCLEAR, PLEASE CALL LINEMASTER SWITCH CORPORATION.**

(860) 974-1000; FAX (860) 974-0691 OR (800) 974-3668; [www.linemaster.com](http://www.linemaster.com)

**READ INSTRUCTIONS** on reverse side of this page.

### **DEFINITIONS:**

**POINT OF OPERATION** - The point or area of the machine or equipment where the work piece or material is actually positioned and work is being performed during any process such as cutting, shearing, punching, forming, welding, riveting, assembling, etc...

**PINCH POINT** - Any point at which it is possible for a portion of the body to be caught and injured between moving machine or equipment or work piece parts.

