FORM 2369 EG100 EMERGENCY STOP INSTALLATION

DANGER Before performing service turn the key switch to the OFF position and remove the key. Failure to follow this will result in severe injury or death.

Description	Part Number	Qty
EG100 E-STOP RETROFIT KIT		
Guard, Emergency Stop Button	T00211-1	2
Screw, 1/4-20x3/4 BO SHC	F05005-26	4
Nut, 1/4-20 Nylock	F05010-69	4
Washer, 1/4 SAE Flat	F05011-60	8
Button, Xalk 174 Emergency Stop	E22703-P	2
Screw, 8-32x3/4 BO SBHC	F05004-83	2
Nut, #8-32 Hex Nylock	F05010-169	2
Microswitch, green	053000	1
Connector, 1/2" NPT .17-.47	051299	1
Nut, 1/2 npt Connector Lock	E20461	1
Switch, Az17-11zrk Safety	094232	1
Nut, #8-32 Hex Nylock	F05010-169	2
Screw, #8-32x1-1/2 BO SHCS	F05004-187	2
Key, AZ17/170-B5 Safety Switch	094422	1
Nut, #8-32 Hex Nylock	F05010-169	2
Bolt, 8-32x1/2 SBH, Stainless Steel	F05004-64	2
Terminal, #10 14-16Ga Fork NI Loose	F05703-5R	8
Terminal, 1/4 14-16Ga Quick Male FI	F05708-16	3
Terminal, 1/4 14-16Ga Quick Female FI	F05708-3	3
Bolt, #10-24x1/2 Ph Pan Hd, Type 23	F05015-17	1
Nut, #10-24 Keps	F05010-14	1
Tubing, 13/16 OD x 5/8 ID Neoprene	R02349	1
Wire, 16-2, 84" (to e-stops)	R01923	2
Wire, 16-2, 49" (to switch)	R01923	1
Instruction sheet	-2369	1

Tools

Wire cutters	#10 Torx key
Wire stripper	Open end wrenches
Wire crimper	Flat tip screwdriver
Hex keys	Phillips screwdriver
Heat gun	

Assemble E-stop

NOTE: The procedure is identical for both E-stops.

1. Strip approximately 1-1/2 inches of the cable insulation from the 84" cable.
2. Strip approximately 1/4" of the insulation from each wire.(See Figure 1.)
3. Remove E-stop from box.
4. Punch out the conduit knock-out plug. (See Figure 2.)

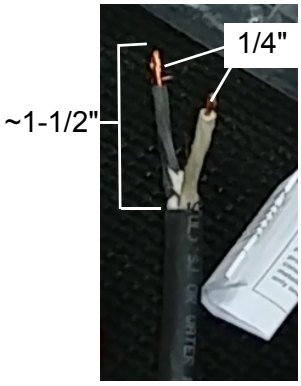


FIGURE 1

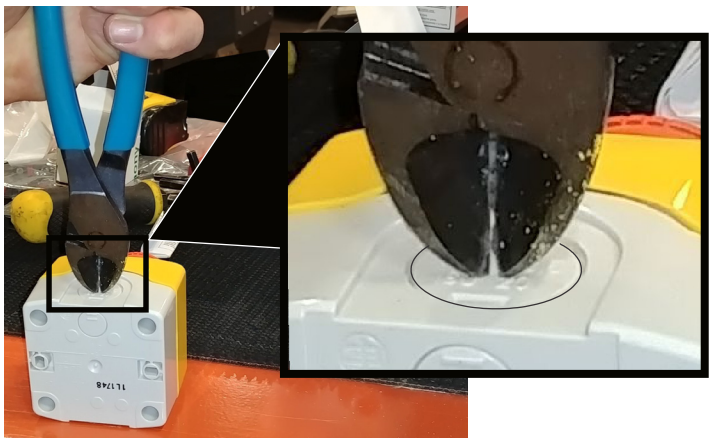
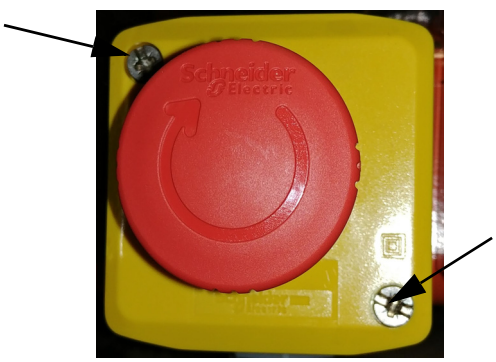
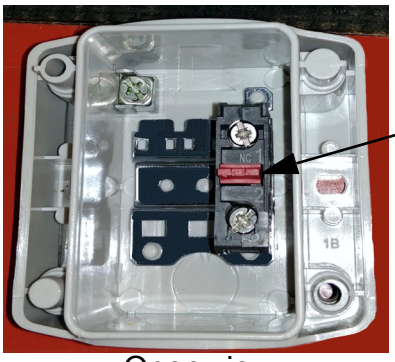


FIGURE 2

5. Unscrew front screws to open E-stop. (See Figure 3.)





Open view

FIGURE 3

6. Remove red microswitch by pushing the unit upward while pulling out at the top.

7. Screw in the 1/2" connector (051299) into the hole and secure with the 1/2" mounting nut (E20461).

8. Loosen the strain relief nut on the 1/2" connector .

9. Thread one 84"-cable end through the E-stop case.

10. Attach the cable wires to the green microswitch. (See Figure 4.)

    a. Loosen the wire hold-down screws.

    b. Insert the wires into the top and bottom of the micro-switch. (Orientation of the black or white wire does not matter.)

    c. Tighten the wire hold-down screws.

    d. Tug on the wires to ensure they are secure.

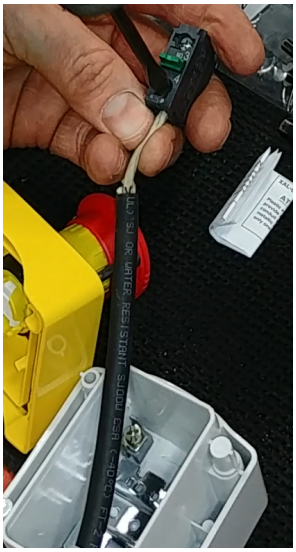


FIGURE 4

11. Insert the microswitch in the E-stop case by catching the plastic hook into the metal case opening and pushing to the upper metal hooks into the case **until it clicks.** (See Figure 5.)

12. Pull slack cord through the 1/2" connector and tighten the strain relief nut.

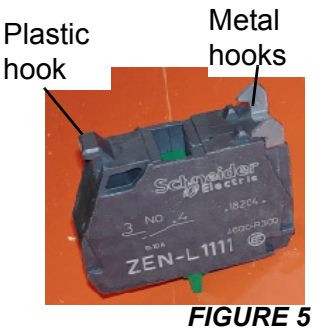


FIGURE 5

13.

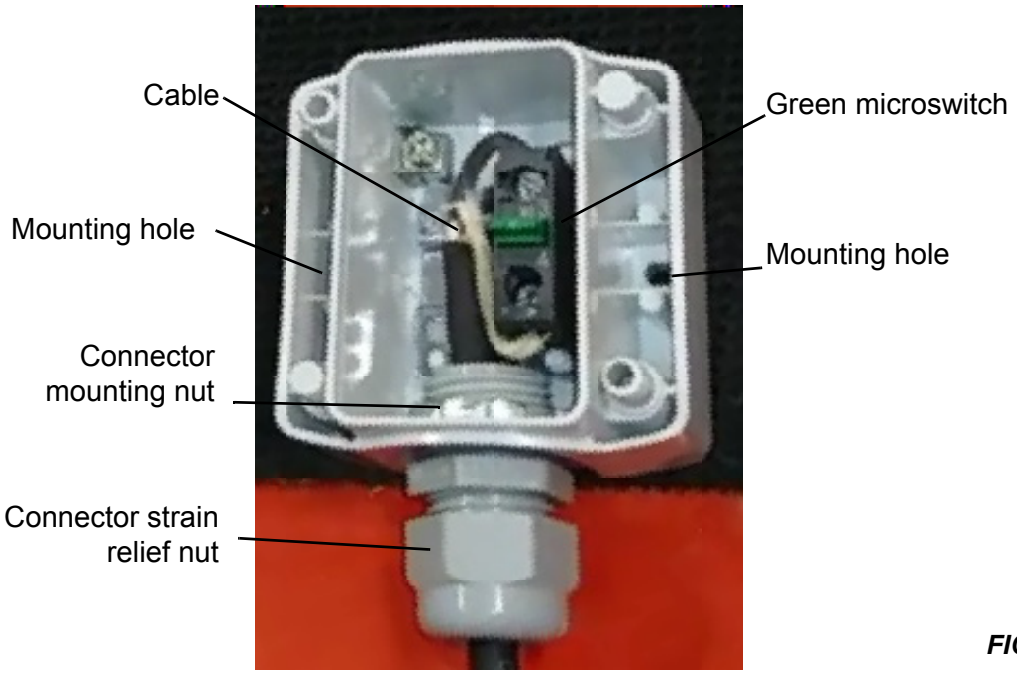


FIGURE 6

14. Mount the E-stop on the EG100 table frame.

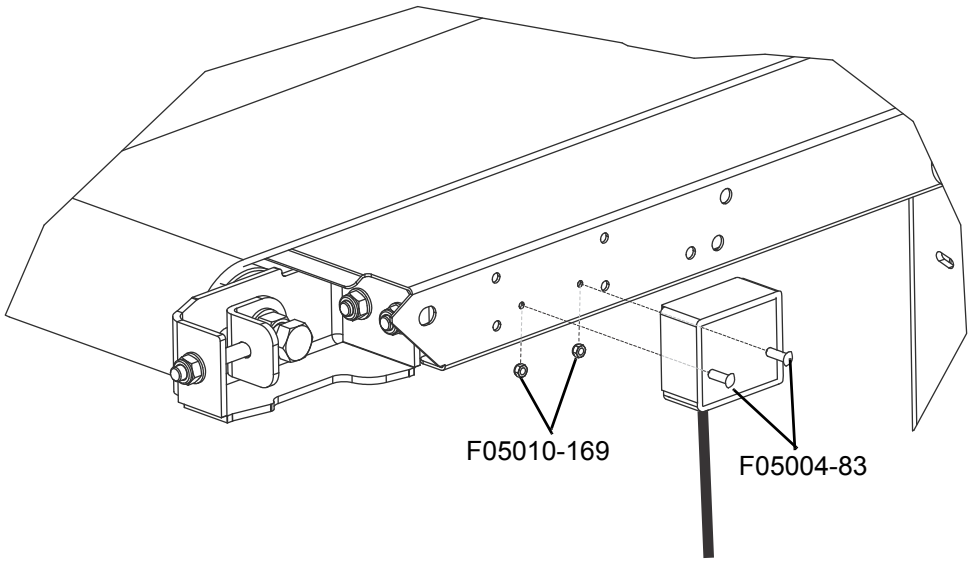


FIGURE 7

15. Replace the front of the E-stop on the body.

16. Mount the E-stop guard.

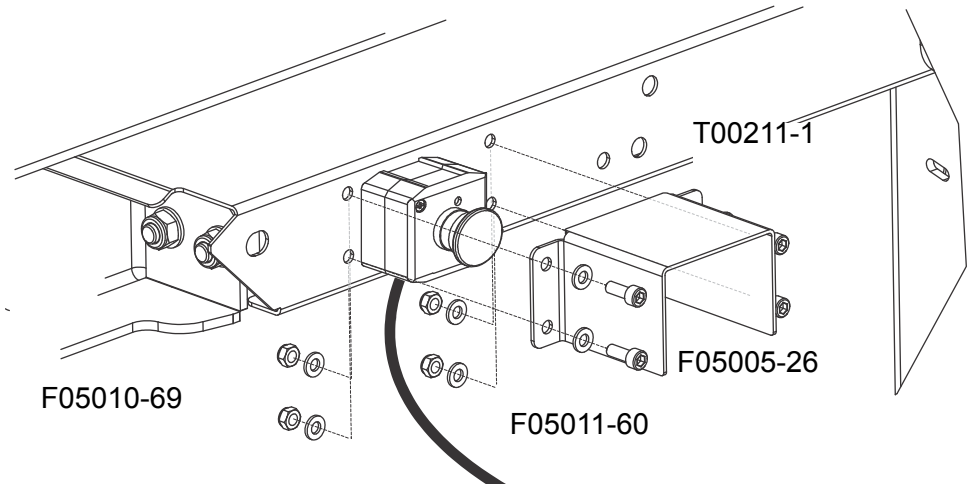


FIGURE 8

17. Repeat this section for the second E-stop on the other side.

Assemble the lid safety switch

1. Strip approximately 1-1/2" of the cable installation from the 49" cable.

NOTE: Do not strip wires here.

2. Open the switch using a Torx 10 key.

The interior of the switch is keyed -- one side has a square mount and the other has a semi-circle.

Attach both wires on the **SEMI-CIRCLE** side the switch.

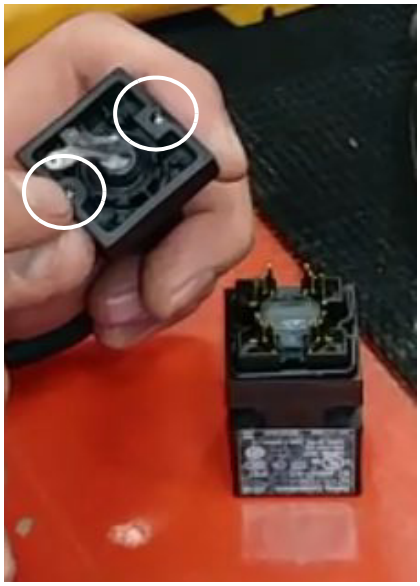


FIGURE 9

3. Loosen the strain relief nut on the switch and thread the cable through.

4. Trim the wires to fit in the switch as shown in Figure 10.

5. Tighten the strain relief nut to hold the cable firm.

6. Tuck the wires on into the holding brackets to position them for the contacts to slice through the insulation.

FIGURE 10

7. Firmly press the switch together until fully seated and tightly close with the Torx 10 key.

8. Strip approximately 1-1/2" of the cable insulation and approximately 1/4" of the insulation from wires at the loose end of the cable.

9. Perform a continuity test to ensure the switch connectors made good contact with the wires.

IMPORTANT: Continuity is positive when the safety key is **REMOVED**; negative when the safety key is inserted. Test continuity with and without the safety key.

10. Mount the safety switch key to the lid. **Do not tighten at this time.**

FIGURE 11

11. Mount the switch to the frame. (See Figure 12.)

12. Ensure the key and switch align properly.

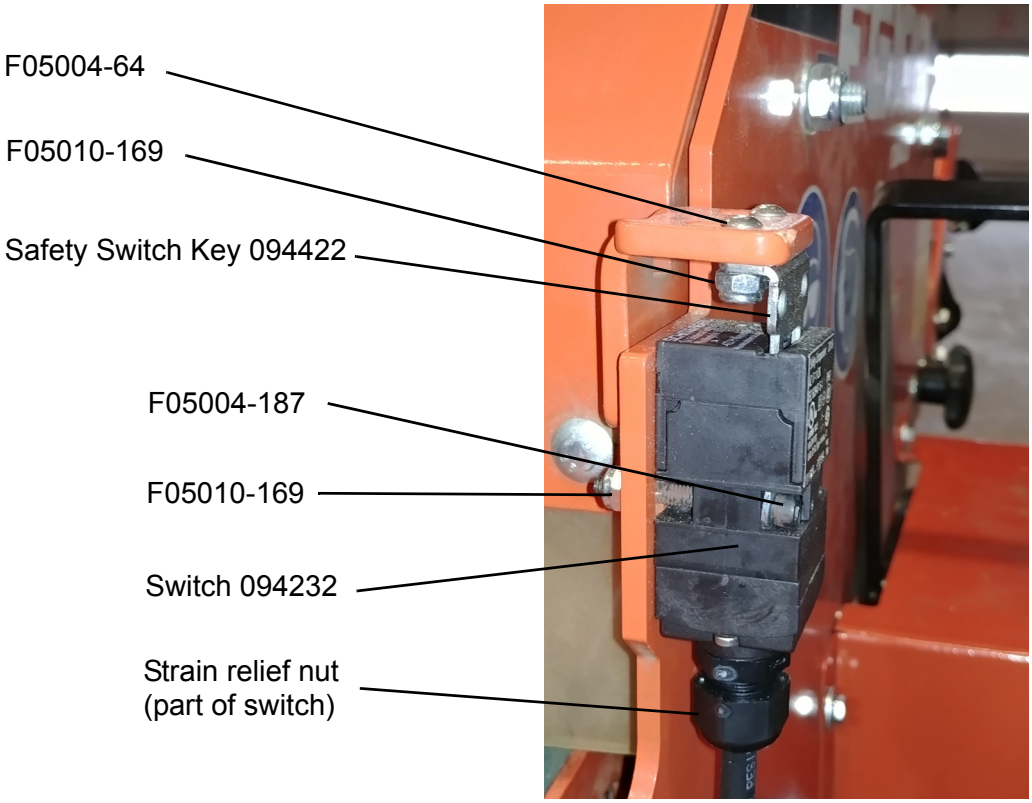


FIGURE 12

13. Tighten the key mounting screws when aligned.

14. Thread the switch cable through the grommet in the corner of the motor mount, directly below the switch.

Wire to the engine

1. Thread the three cables (2 E-stops and the switch) from the bottom up through the motor mount grommet near the ignition side of the engine.

FIGURE 13

NOTE: Three "pigtails" of 16ga, stranded wire, approximately 3" long will be needed for this section. If you do not have the wire available, a piece may be taken from an E-stop cable.

2. Strip approximately 1-1/2 inches of the cable insulation from each cable.

3. Strip approximately 1/4" of the insulation from each wire.

4. Crimp a F05703-5R fork terminal to one wire on each cable.

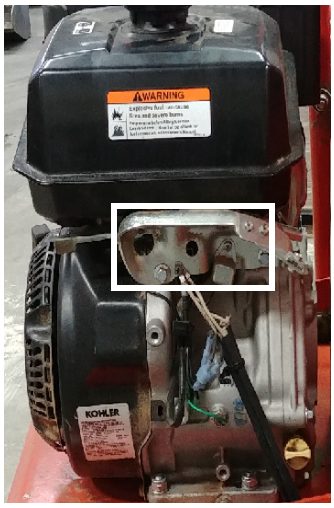
NOTE: The white wire is used in this example; however, it does not matter which wire is used.

5. On the other wire in each cable, crimp on F05708-16 male connector.

6. Strip approximately 1/4" of the insulation from each end of the three pigtail wires.

7. Crimp on the F05708-3 to one end of each of the pigtail wires.

8. Locate the ignition wire. (See Figure 13.)



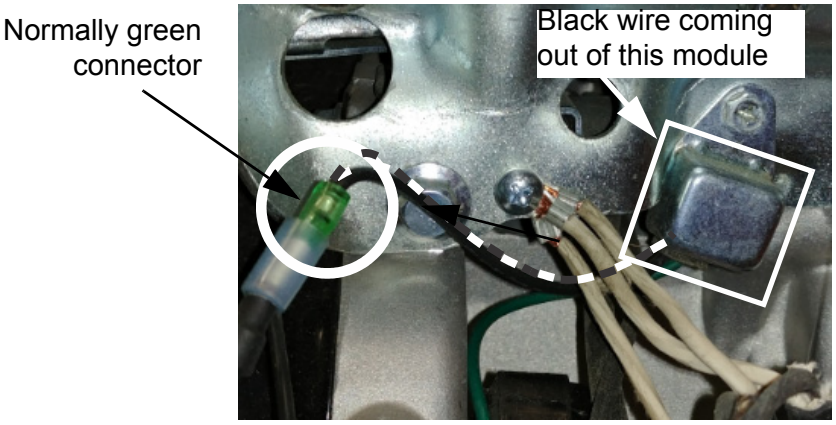


FIGURE 14

9. Cut the ignition wire downstream of the green connector and strip a 1/4" off each end of the cut.

10. Slide the R02349 tubing over the engine side of the ignition wire.

11. Crimp F05703-5R terminals on all three pigtail wires and both ends of the ignition wire.

12. Connect all 5 wires together with the F05015-17 bolt and F05010-14 nut.

13. Slip the tubing over all wires and heat shrink.