

# INSTRUCTIONS FOR REPLACING THE AS3000 KEYPAD ON THE MGC2000

## Before replacing the keypad do the following:

- Read these instructions to familiarize yourself with this process.
- The keypad does not hold any control settings for the MGC2000 panel, so no recalibration will be necessary after replacing only the AS3000 keypad per these instructions.
- Functionally, the upgraded keypad works the same as the older keypad, so your MGC2000 panel will operate the same after the keypad has been replaced.
- If you have questions, contact FWMurphy at 918-317-4100 and ask for Technical Services.

## To replace the keypad do the following:

1. Make sure the generator is turned off. If it is running, press the “Off/Stop” button on the AS3000 keypad – this will stop the generator. Note whether the generator is in “Manual Start” mode (amber LED lit) or “Auto Start” mode (green LED). You will need to return the controller to this mode at the end of this procedure.

Press the “Off/Stop” button again to turn off the MGC2000 control panel. All the LED’s on the keypad should be now off.

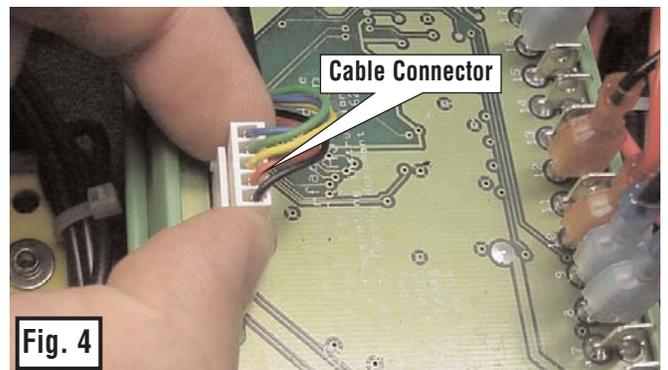
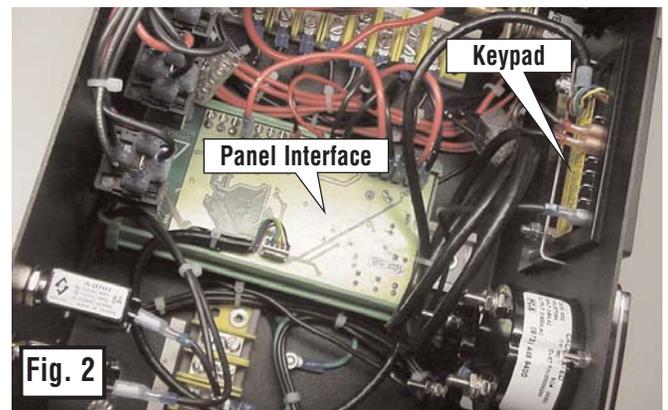
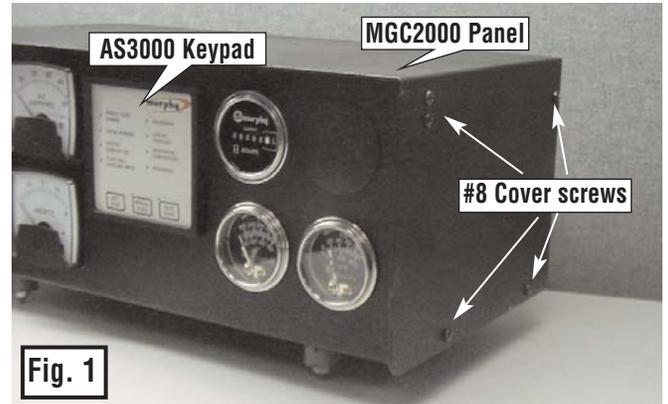
Remove the positive battery cable from the positive battery terminal and make sure this cable cannot slide into or fall back onto the positive battery terminal.

2. With a #2 Phillips screwdriver, remove the five (5) screws located on each side of the MGC2000 panel, holding the panel cover in place. See **Fig. 1**.
3. Remove the panel cover by lifting it straight up and off the MGC2000 panel. **Fig. 2** shows a view looking down into the inside of the MGC2000 panel with the panel cover removed. Notice the location of the Panel Interface and the rear side of the AS3000 Keypad.
4. Using a pair of wire cutters, carefully cut the plastic cable tie which holds the keyboard cable to the panel interface. Remove and discard this plastic cable tie. See **Fig. 3**.
5. Holding each side of the 5-pin keyboard cable connector, gently wiggle the connector and lift up to remove the connector from the panel interface. See **Fig. 4**.
6. Using the chart below, record the connections on the back of the keypad. You will transfer these connections to the new keypad once it is installed. An example is shown for **Fig. 5**. Your keypad may or may not have identical connections as the one shown here. Be sure to record your keypad connections.

Example							
31	32	33	34	35	36	37	38
	●	●					●
				From Panel			

Record Your Configuration Here							
31	32	33	34	35	36	37	38

7. Remove the slip on connectors from the terminals 31 through 38 on the back of the keypad by gently pulling on the connectors themselves. DO NOT pull on the wires directly to remove the slip on connectors.



8. Using a 7 mm or 9/32" nut driver, remove the two locknuts which hold the keypad mounting bracket in place. See **Fig. 5**.
9. Remove the keypad mounting bracket. See **Fig. 5**.
10. Remove the keypad and cable from the side of the MGC2000 panel.
11. Install the new keypad in place of the old keypad. When tightening the keypad mounting bracket nuts, be careful to not over tighten. These nuts should only be finger tightened, plus an additional 1/4 turn. Problems can be caused by over tightening these mounting bracket nuts – Do **NOT** over tighten.
12. Reference the table you created in **Step 6**, and duplicate these connections on terminals 31 through 38 on the new keypad using the wires which were connected to the old keypad. Make sure that the slip on connectors are fully seated on the new keypad.
13. Insert the supplied plastic cable tie into the bracket shown on the panel interface. See **Fig. 6**.
14. Plug the 5-pin keypad cable into the panel interface as shown. See **Fig. 7**.
15. Close the cable tie and tighten to secure the keypad cable to the panel interface. See **Fig. 7**.
16. Once the cable tie is tightened, trim the excess using a pair of wire cutters. See **Fig. 8**.
17. The 5-pin keypad cable plugged into the panel interface should look similar to this when you are finished. See **Fig. 9**.
18. Slide the cover onto the MGC2000 panel, replace the cover screws on each side of the cover and tighten with a #2 Phillips screwdriver.
19. Reconnect the positive battery cable to the positive battery terminal.

**Last Step:** Return the controller to either Manual or Auto Start mode by pressing the appropriate button on the keypad. This will turn on the controller and illuminate all the LED's on the keypad for a few seconds. When the LED's turn off, the controller will now be active. If Manual Start mode was selected (amber LED is lit), the generator can now be started by pressing the Manual Start button again. If Auto Start mode was selected (green LED is lit), the controller is now waiting for a remote start signal.

