

## Replacing Banana Plugs on Touchpads, Backup Buttons and Start Cables

Tools Required: Wire cutter  
Wire stripper  
1.5 mm Allen wrench  
Small screwdriver  
Silicone adhesive/sealant

1. Cut the old banana plug off the yellow wire as close to the plug as possible. If the old plug has a spiral cord restraint, unscrew the cord restraint from the plug body and slide it back while you cut the wire. The cord restraint can then be discarded.
2. Strip the yellow wire's outer insulation back 1 inch from the end. Strip the ends of the black and red wires back 3/8 inch from the end. If possible, you can "tin" the wire ends with solder, but this is not necessary.
3. Remove the bolt from the nylon connector body, being careful to retain the nut and screw. Separate the halves of the nylon connector body. The 2 banana plugs inside will come free.
4. Feed the stripped cable end through the access hole in the nylon connector body half with the GND tab. Orient the wire ends so the black wire is on the side of the nylon connector body with the GND tab.
5. Insert the black wire end through the cross hole in a banana plug and tighten the set screw inside the body. Repeat with the red wire and the other banana plug.
6. Lay the banana plugs back in the nylon connector body as shown in the drawing. Push the yellow wire in as far as possible. You can rotate the banana plugs to take up any slack. **MAKE SURE THE BANANA PLUG BODY WITH THE BLACK WIRE GOES NEXT TO THE "GND" TAB.**
7. Before closing the nylon connector body, fill the available space with silicone adhesive/sealant to prevent water from reaching the wires.
8. Reassemble the nylon connector body with the bolt and nut, and allow the silicone to dry at least 2 hours. Test the connection to the deck cable by using your software's Diagnostic function.

