TuxCASE for Arduino
Manufacturing Steps
v20121026

Step 1   Cut Stock to Size

   Equipment: DeWALT 716 12" Miter Saw
   Consumables: Freud LU77M012 12" Non-Ferrous Saw Blade
                   6061-T6511 Extruded Aluminum Bar

Step 2   Machining Operation 1 of 2

   Face mill top of stock, profile mill side of Stock
   Equipment: Haas VF-2SS VMC
   Consumables: 2.5" Face Mill
                   3/8 Roughing End Mill

Step 3   Machining Operation 1 of 2

   Face mill top of stock, profile mill side of stock,
   pocket mill enclosure cavity, spot drill, chamfer
   top and bottom edges, #43 drill for 4-40 threaded
   holes, tap 4-40 holes, #32 drill for enclosure
   mounting holes, 100 degree chamfer of enclosure
   mounting holes, engrave serial number.

   Equipment: Haas VF-2SS VMC
   Consumables: 2.5" Face Mill
                   3/8 Roughing End Mill
                   3/8 Drill/Mill
                   1/4 End Mill
                   #43 Drill
                   4-40 Tap
                   #32 Drill
                   100 Degree Counter Sink
                   1/16 Ball End Mill

Step 4   Laser Engraving & Cutting of Top Cover

   Equipment: Universal Laser System M300 Laser Engraver
   Consumables: .118" Acrylite FF Clear Acrylic Sheet

Step 5   Label Printing & Packaging

   Equipment: HP 4100 Laser Printer
   Consumables: 4" x 6" 4Mil Resealable Poly Bag
                   2" x 4" Self Adhesive Label
                   4-40 Philip Machine Screws
                   X61 Toner