

Installation Drawing: **CAREFULLY** read everything before starting!

This is a combination view showing the external right side and inside "X-Ray" view of the Stick Grip fitting a 1" OD tube.

On the workbench, if possible, CAREFULLY disassemble the grip and reassemble the grip over your tube! DO NOT overtorque allen screws. A drop of blue Loctite 242 on screw threads for final assembly is a good idea.

Short (3/4") 6-32 Allen Head Screw

The **ONLY** Long (7/8") 6-32 Allen Head Screw

Slot the back side of your tube beginning from the top (also the spacer, if you need one), 1/2" wide x 1.25" long perpendicular to the upper boss hole for your wires to more easily pass down

The 2 short (3/4") 6-32 Allen Head Screws, coupled with the lower boss and it's long (7/8") Allen Head Screw, make for an extremely strong three-point clamp on your stick tube. The Stick Grip can't pull or twist off, and there is no need to ever glue

NOTE: Drawing almost to Scale !

INFINITY Aerospace

P. O. Box 12275 El Cajon, CA 92022

PH: (619) 448-5103 ; FAX: (619) 448-5176

Home Page: <http://www.InfinityAerospace.com>

NOTES:

* The simplest method for Canard builders to do is to change their stick tube diameter to a 1" OD tube vice stepping it down to a 5/8" OD, so the wires will fit down through the ID and around the tube pivot bolt.

* If your tube is 1-1/8" OD (ex. -- Warbirds), a 1" OD x 3/4" ID x 5" long slotted spacer will fit the ID of your stick and give you wall thickness to tap into through stick tube.

* All allen head screws use a 7/64" allen wrench. Keep in tool kit with plane.

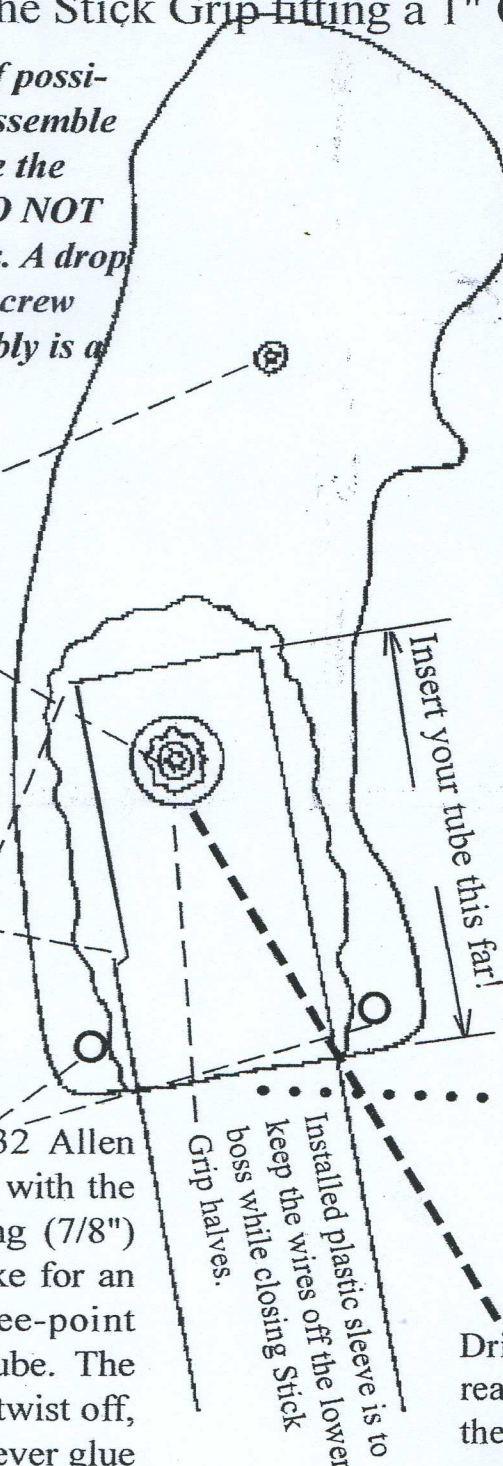
* Spacers are 2.125" to 2.875" long with a 29/64" hole drilled 0.5" from one end, and the machined slot for the wires is 0.5" wide x 1.25" long machined from the end with the 29/64" hole 90° to the boss hole.

* Specs state that the 4 brass inserts molded into this ABS are good for 385 lbs. of tension (pull) each.

* Recommend potting blue cable bundle inside lower ID of tube area with silicone after final installation.

* An appropriately AMP rated 17 pin cannon plug eases servicing.

Drill a 29/64" hole (you may need to ream hole) through your tube 1/2" from the top at the proper clock code / twist to comfortably fit your hand and wrist. The lwr boss then fits snugly through it.



YOUR Custom Military Stick Grips Order Form & Pictorial Wiring Schematic

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[Click here to E-Mail this Order Form](#)

Custom Form/Company/E-mail: _____

Mailing Address: _____

City: _____ State/Region: _____

Country: _____ Zip/Postal Code: _____

Phone: (_____) _____

Amount: \$0.00 ☐ PMO Ck ☐ P ☐ B # _____

CA Sales Tax: 0.00 ☐ Purchase Order #: _____

S & H: 0.00 ☐ MC ☐ Visa ☐ Cash

TOTAL: **\$0.00** Auth. / Ref. #: _____

Date Check Cashed or CCard run: _____

Card #: _____ Exp. Date: _____

DOR: _____

Date Order Received via ph. mail, FAX, e-mail, web or walk-in.

DOM: _____

Date Order was Mailed, or ship'd via FedEx, UPS or DHL, order.

Right Grip(s): 1 -- 11-00036

Left Grip(s): 0 -- 11-00667

3/4" ID Short ☐ Long ☐

Spacer(s): 0 7/8" ID ☐ 0 3/4" ID

Custom Spacer(s): 0

Extra Cable _____ feet
(\$2 / Ft.): ☐ 0 extra ☐ 3 Total
each feet each

A/C Type: _____ With Spoilers

Notes & Additional Parts:

☐ 0 Relay Deck 12 ☐ or 24 ☐ VDC

☐ 0 Co-pilot Isolate &/or Mag Switches

☐ GP301 ☐ or GP302 ☐ Pre-Order & BU Oil Pump 12 ☐ or 24 ☐

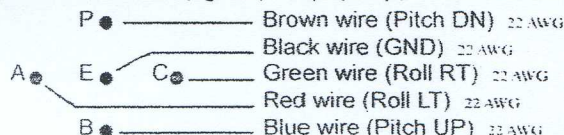
☐ JD, let me know when the HOT is ready!



Wiring Schematic & Color Code for the INFINITY Aerospace Custom Mil-Spec Blue Cable is as follows:

1. 2-Axis Pitch & Roll (or Rudder) thumb operated Trim Sw. w/Black China Hat. Switch rated for ~1 AMP @ 12 VDC and 500K operations!

Can be used for step'g freq, freq flip/flop, comm sel, ident!



Switch "X-Ray" looking at the Grip from the outside top.

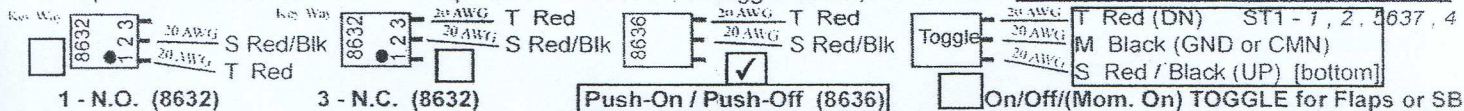
2. RED Push-To-Talk (PTT), or "Other", Use Trigger Sw.:



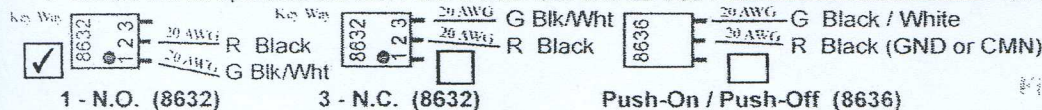
NOTES: • There is NO NEED to push the 4-way switch down to operate it!!!!

- Don't forget to placard your cockpit, and to annotate in your Pilot Operating Handbook (POH) the Stick Grip functions! Make sure YOU check-out each pilot, too!!!
- Switches 1 and 2 are wired with custom, logically color coded, 22 A.W.G. wires.
- Switches 3, 4, 5 & 6 are wired with custom, logically color coded, 20 A.W.G. wires.
- The Single-Pole Double-Throw (SPDT) Push-On / Push-Off Push-Button type switches are marked 8636. Switch meets UL # E83438(M).
- The SPDT Momentary Normally Closed (N.C.) and Normally Open (N.O.) Push-Button type of switches are marked 8632. Switch meets UL # E83438(M).
- Yes, the 4-way switch and toggle switch(es), and usually the high AMP draw items operated by the push-button switches, requires a relay (and it's safer, too -- see our web site for sample wiring schematics for Relays used for Trim and Flap Systems).
- The 8632 & 8636 Push-Buttons, & the toggle switches, are all rated for 6 AMP's @ 12 VDC, or 3 AMP's @ 28 VDC, & 40K operations! The center leads are GND or Common (CMN). Ensure YOU check ALL switch continuities before applying power!!!

3. Top inside / thumb side RED thumb operated Push-Button, or Toggle Switch, and it's Use :



4. Middle thumb operated BLACK Push-Button Sw. and it's Use :

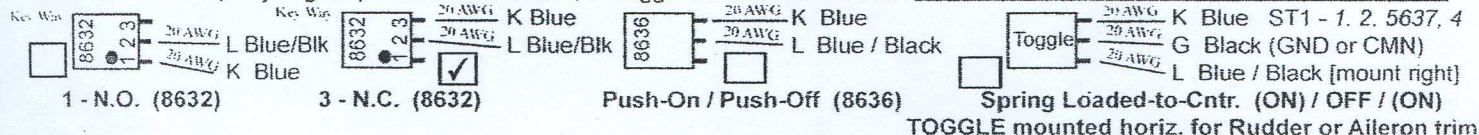


INSTRUCTIONS:

Read the "NOTES" above.

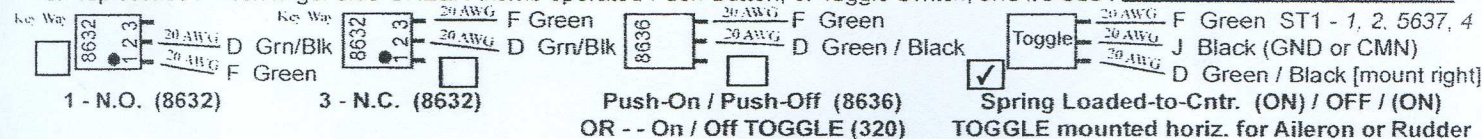
Fill out the top; Check the boxes, or Circle the switches, and write in the use.

5. Bottom BLUE pinky finger operated Push-Button, or Toggle Switch, and it's Use :



Autopilot Disconnect

6. Top outside / index finger side GREEN thumb operated Push-Button, or Toggle Switch, and it's Use :



Rudder or Aileron Trim

Rev. 09/11/08

IA:

SO:

Inv. #:

gripwire-ck.pdf