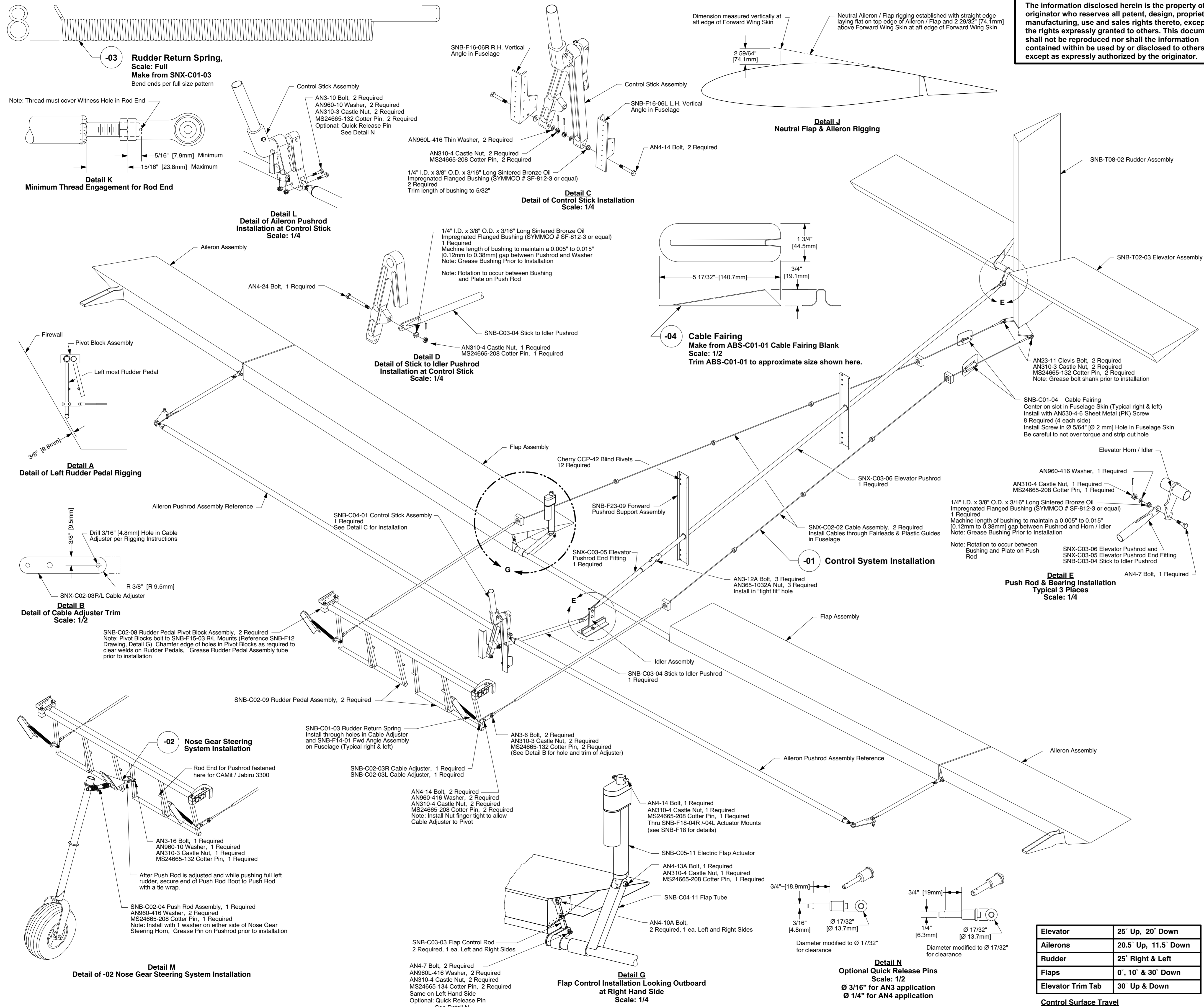


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Revision Letter	Change Description	
A	Detail C Replaced AN960-416 Washers with Flanged Bushings AN-11A Bolt with AN4-11 Bolt Qty 2 total AN325-428 Elastic Stop Nut with AN310-4 Castle Nut, Qty 2 total Added MS24665-134 Cotter Pin, total 2 Flap Actuator is now SNB-C05-10 Electric Flap Actuator 05.18.2017	
B	Detail D AN4-24 Bolt was AN4-30 Bolt 12.17.2020	
C	-01 Assembly, Detail G, General Rigging Order: References to SNB-F18-02/R/L Removed or replaced by SNB-F18-03/R/L Flap Actuator Brackets. 08.17.2021	
D	-01 Assembly, Detail G, General Rigging Order: SNB-C05-10 Flap Actuator Replaced with SNB-C05-11 Flap Actuator. SNB-C04-09 Flap Tube Replaced with SNB-C04-11 Flap Tube. SNB-F18-03/L/R Flap Actuator Brackets Replaced with SNB-F18-04/L/R Flap Actuator Brackets. AN4-11 bolt (actuator mount to actuator brackets) replaced by AN4-14 bolt. 12.19.2022	



- Note: General Rigging Order**
- Rudder Control System**
- 1) Install SNB-C02-09 Rudder Pedal Assemblies and SNB-C02-08 Rudder Pedal Pivot Block Assemblies (Note: Pivot Blocks may need to be chamfered slightly to clear weld on Pedal Assembly, grease Pedal Assembly Tube at Pivot Block)
 - 2) Install SNX-C02-02 Cable Assemblies through fairleads and plastic guide bushings in Fuselage
 - 3) Fasten Rudder Cables to Rudder Horn
 - 4) Temporarily install SNB-C02-03 R / L Cable Adjusters on Rudder Pedals
 - 5) Holding the left most Rudder Pedal 3/8" [9.5mm] from firewall (see Detail A) and holding the Rudder against the left stop, pull the left Cable tight and mark the left cable adjuster for the attachment hole location for the Cable.
 - 6) Drill and Trim the left Cable Adjuster (see Detail B)
 - 7) Permanently install the left Cable Adjuster on the Rudder Pedal and fasten the left Cable Assembly to the Adjuster.
 - 8) While holding the lower tubes of the Rudder Pedals even, the Rudder in the Neutral Position and with both the left and right Cables tight, mark the right cable adjuster for the attachment hole location for the Cable.
 - 9) Drill and Trim the right Cable Adjuster (see Detail B)
 - 10) Permanently install the right Cable Adjuster on the Rudder Pedal and fasten the right Cable Assembly to the Adjuster.
 - 11) Install the SNB-C01-03 Rudder Return Springs (Adjust length of Springs as required to center Rudder)
 - 12) Install the SNB-C01-04 Rudder Cable Fairings on the right & left Sides
 - 13) Check the Rudder Control System for smooth operation
- Elevator Control System**
- 14) Install the SNB-C04-01 Control Stick Assembly in the Fuselage per Detail C
 - 15) Install the SNB-C03-04 Stick to Idler Pushrod (See Details D & E)
 - 16) Fasten SNX-C03-06 Elevator Pushrod to Elevator Horn (See Detail E) Note: Elevator Pushrod should have already been placed in Fuselage.
 - 17) Slip the SNX-C03-05 Elevator Pushrod End Fitting on to forward end of the Elevator Pushrod and temporarily fasten End Fitting to the Idler (See Detail E)
 - 18) With a 1/16" [1.6mm] thick shim between the Control Stick Frame and the Wing Spar Tunnel and with the Elevator against the full down stop, pilot drill and cleco (1/8") the End Fitting to the Elevator Pushrod
 - 19) Drill the End Fitting and Elevator Pushrod for "tight fit" AN3 Bolts
 - 20) Remove the End Fitting, clean and deburr the parts
 - 21) Reinstall the End Fitting on the Elevator Pushrod, install the AN3 "splice" bolts, and permanently fasten the End Fitting to the Idler
 - 22) Rivet the forward pushrod support channel to the Fuselage and grease the Pushrod where it passes through the supports
- Trim Control System**
- 23) See SNB-C06 for Details
- Flap Control System Actuator**
- 24) Install Flap Actuator. (See Detail G)
Actuator arm should be centered in square tube arm in the Flap tube. Actuator can move as necessary between Mounts.
 - 25) Fasten Flap Pushrods to Flap tube ends.
 - 26) With Actuator in Fully Retracted position, rig the right & left Flaps to the neutral position per Detail J by adjusting the Rod End at Flap (make sure to secure nuts after rigging)
Caution: Verify Minimum Thread Engagement in Rod End per Detail K
- Aileron Control System**
- 27) Fasten the Aileron Pushrods to the Control Stick Assembly per Detail L and Rig the Ailerons with the Control Stick and Ailerons in the neutral position (reference Detail J) by adjusting the Rod Ends on the Aileron Pushrods (make sure to secure nuts after rigging)
Caution: Verify Minimum Thread Engagement in Rod End per Detail K
- 02 Nose Gear Steering Control System**
- 28) Install and adjust SNB-C02-04 Push Rod per Detail M so that the Nose Gear is straight when the Rudder is in the neutral position
 - 29) While pushing full left rudder, secure end of Push Rod Boot to Push Rod with a tie wrap.

Control Surface	Travel
Elevator	25° Up, 20° Down
Ailerons	20.5° Up, 11.5° Down
Rudder	25° Right & Left
Flaps	0°, 10° & 30° Down
Elevator Trim Tab	30° Up & Down

Part / Assy Number	Qty. Req'd	Part Title	Next Assembly
SNB-C01-02	1	Nose Gear Steering Installation	SNB-B04
SNB-C01-01	1	Controls Installation	SNB-B04

sonex-B
Controls Installation

Drawing Scale	Drawing Number	Revision
1/8" & Noted	SNB-C01	D