

# **S-7S**

## **PARTS MANUAL**

<b>000</b>	<b>GENERAL</b>
<b>001</b>	<b>FUSELAGE</b>
<b>002</b>	<b>CONTROL SYSTEMS</b>
<b>003</b>	<b>ENGINE – 912S</b>
<b>004</b>	<b>INSTRUMENTS &amp; ELECTRICAL</b>
<b>005</b>	<b>WINGS</b>
<b>006</b>	<b>EXTERNAL ASSEMBLIES</b>
<b>007</b>	<b>COVERING</b>
<b>008</b>	<b>INTERNAL ASSEMBLIES</b>
<b>009</b>	<b>OTHER</b>
<b>011</b>	<b>OPTIONS</b>

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### SECTION 001 - FUSELAGE

01 – 02	FUSELAGE FORMER INSTALLATION
03 – 04	MAIN GEAR ASSEMBLY & INSTALLATION
04A – 04B	6" WHEELS AND BRAKES ASSEMBLY & INSTALLATION
05 – 06	TAILWHEEL ASSEMBLY & INSTALLATION
07 – 08	HORIZONTAL STAB. & ELEVATOR ASS'Y & INST'LL
09 – 10	TRIM TAB ASSEMBLY & INSTALLATION
11 – 12	FLOORBOARD INSTALLATION
13 – 14	RUDDER PEDAL INSTALLATION
15 – 16	RUDDER SYSTEM ASSEMBLY & INSTALLATION
17 – 18	FIREWALL INSTALLATION
19 – 20	HYDRAULIC BRAKE INSTALLATION
21 – 22	DOORFRAME BATTERY ACCESS PANEL INSTALLATION
23 – 24	FUEL SYSTEM – FUSELAGE
25 – 26	FUEL SYSTEM – 2.75 GALLON HEADER TANK

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### SECTION 002 - CONTROL SYSTEMS

002-01 & 02	CONTROL STICK ASSEMBLY
002A-01 & 02	FORWARD PUSH-PULL TUBE ASSEMBLY
002B-01 & 02	AFT PUSH-PULL TUBE & ELEVATOR YOKE ASSEMBLY
002C-01 & 02	AILERON CABLE SYSTEM INSTALLATION-FUSELAGE
002D-01 & 02	FLAP LEVER ASSEMBLY AND INSTALLATION
002E-01 & 02	THROTTLE LEVER INSTALLATION

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### SECTION 003 - ENGINE - 912

01 – 02	ENGINE MOUNT INSTALLATION
03 – 04	ENGINE INSTALLATION
05 – 06	-----
08 – 09	FUEL LINE INSTALLATION- FIREWALL FORWARD
10 – 11	THROTTLE CABLE INSTALLATION
12 – 13	CHOKE INSTALLATION
14 – 15	LUBRICATION SYSTEM ASSEMBLY & INSTALLATION
16 – 17	COOLING SYSTEM INSTALLATION
18 – 19	MUFFLER/HEATER WRAP ASSEMBLY & INSTALLATION
20 – 21	HEATER INSTALLATION
22 – 23	CARB HEAT INSTALLATION

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### SECTION 004 - INSTRUMENTS & ELECTRICAL

01 – 02	BATTERY BOX ASSEMBLY & INSTALLATION
03 – 04	INSTRUMENTS & ELECTRICAL
05 – 06	ELT & COMMUNICATION ANTENNA INSTALLATION
07 – 08	JACK MOUNT INSTALLATION
09 – 10	PITOT / STATIC TO INSTRUMENT INSTALLATION

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### SECTION 005 - WINGS

005-01 - 005-02	UNIVERSAL HINGE
005-03 – 005-05	MAIN STRUCTURE ASSEMBLY
005A-01 – 005A-02	FUEL TANK ASSEMBLY & INSTALLATION
005A-03 – 005A-04	FUEL CAP ASSEMBLY
005B-01 – 005B-02	AILERON BELLCRANK & CABLE INSTALLATION
005C-01 – 005C-02	ROOT RIB ASSEMBLY
005C-03 – 005C-04	RIB ASSEMBLY
005C-05 – 005C-06	TIP RIB ASSEMBLY
005C-07 – 005C-08	RIBS & SHEET METAL
005D-01 – 005D-02	FLAP ASSEMBLY & INSTALLATION
005D-03 – 005D-04	AERO-SERVO AILERON ASSEMBLY & INSTALLATION
005E-01 – 005E-02	LIFT STRUT ASSEMBLY & INSTALLATION
005E-03 – 005E-04	JURY STRUT INSTALLATION
005F-01 – 005F-02	WING TIP ASSEMBLY & INSTALLATION
005G-01 – 005G-02	ROOT SKIN INSTALLATION

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### SECTION 006 - EXTERNAL ASSEMBLIES

01 – 02	BOOT COWL/INSTRUMENT PANEL INSTALLATION
02A - 02B	VERTICAL INSTRUMENT PANEL INSTALLATION
03 – 04	FORMED WINDSHIELD ASSEMBLY & INSTALLATION
05 – 06	DOOR ASSEMBLY, LEXAN & TRIM
07 – 08	DOOR LATCH AND DOOR INSTALLATION
09 – 10	13" SPINNER ASSEMBLY
11 – 12	OPTIONAL SENSENICH WOOD PROPELLER INSTALLATION
13 – 14	COWLING ASSEMBLY & INSTALLATION
15 – 16	OIL CHECK DOOR INSTALLATION

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### SECTION 007 - COVERING

01 – 02	COVERING
03 – 04	COVER / PAINT STANDS – FUSELAGE
05 – 06	COVER / PAINT STANDS – WING
07 – 08	COVER / PAINT STANDS – FLAPS & AILERONS
09 – 10	COVER / PAINT STANDS – HORZ STAB & ELEVATOR
11 – 12	COVER / PAINT STANDS - RUDDER



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### SECTION 008 - INTERNAL ASSEMBLIES

01 – 02	BAGGAGE COMPARTMENT ASSEMBLY
02A – 02B	BAGGAGE COMPARTMENT INSTALLATION
02C – 02D	CARGO NET INSTALLATION
03 – 04	SEAT ASSEMBLY & INSTALLATION
05 – 06	SEAT BELT ASSEMBLY & INSTALLATION
07 – 08	RUDDER CABLE GUARD INSTALLATION
09 – 10	STATION 3 CLOSE OUT INSTALLATION
11 – 12	THROTTLE CABLE COVER INSTALLATION

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### **SECTION 009 - OTHER**

01 – 02      PLACARDS / LABELS / MARKERS

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### SECTION 011 - OPTIONS

01 – 02	WINTERIZATION KIT
03 – 04	COMPASS MOUNT INSTALLATION
05 – 06	WHELEN STROBE INSTALLATION
06A – 06B	KUNTZLEMAN STROBE INSTALLATION
06C - 06D	AVEO STROBE INSTALLATION
07 – 08	SENENICH COMPOSITE PROP INSTALLATION
09 – 10	-----
11 – 12	-----
13 – 14	-----
15 – 16	LANDING LIGHT INSTALLATION

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## **TEXT MANUAL**

<b>00</b>	<b>GENERAL</b>
<b>01</b>	<b>FUSELAGE</b>
<b>02</b>	<b>CONTROL SYSTEMS</b>
<b>03</b>	<b>ENGINE – 912S</b>
<b>04</b>	<b>INSTRUMENTS &amp; ELECTRICAL</b>
<b>05</b>	<b>WINGS</b>
<b>06</b>	<b>EXTERNAL ASSEMBLIES</b>
<b>07</b>	<b>COVERING</b>
<b>08</b>	<b>INTERNAL ASSEMBLIES</b>
<b>09</b>	<b>RIGGING</b>
<b>10</b>	<b>OPERATIONS</b>
<b>11</b>	<b>OPTIONS</b>

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### SECTION 00 - GENERAL

00-03	AIRCRAFT TOOL LIST
00-03A	RECOMMENDED AVIONICS LIST
00-04	GENERAL INFORMATION
00-08	ASSEMBLY FLOW CHART GENERAL
00-09	ASSEMBLY FLOW CHART DETAILED
00-09	FUSELAGE - PRECOVERING ASSEMBLY
00-10	FUSELAGE - FINAL ASSEMBLY
00-14	TAIL SURFACES - PRECOVERING ASSEMBLY
00-15	TAIL SURFACES - FINAL ASSEMBLY & INSTALLATION
00-15	WINGS - PRECOVERING ASSEMBLY
00-17	WINGS - FINAL ASSEMBLY & INSTALLATION

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### SECTION 01 - FUSELAGE

01-01 – 01-03	FUSELAGE FORMER INSTALLATION
01A-01 – 01A-03	MAIN GEAR ASSEMBLY & INSTALLATION
01B-01	TAIL WHEEL ASSEMBLY & INSTALLATION
01C-01 – 01C-05	HORIZONTAL STABILIZER & ELEVATOR ASS'Y & INST'LL
01D-01 – 01D-02	TRIM TAB ASSEMBLY & INSTALLATION
01E-01 – 01E-02	FLOORBOARD INSTALLATION
01F-01	RUDDER PEDAL INSTALLATION
01G-01 – 01G-02	RUDDER SYSTEM ASSEMBLY & INSTALLATION
01H-01 – 01H-04	FIREWALL ASSEMBLY & INSTALLATION
01I-01 – 01I-02	HYDRAULIC BRAKE INSTALLATION
01J-01	DOORFRAME BATTERY ACCESS PANEL INSTALLATION
01K-01 – 01K-03	FUEL SYSTEM - FUSELAGE

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### SECTION 02 - CONTROL SYSTEMS

02-01 – 02-03	CONTROL STICK ASSEMBLY & INSTALLATION
02A-01	FORWARD PUSH PULL TUBE ASSEMBLY
02B-01	AFT PUSH-PULL TUBE AND ELEVATOR YOKE ASSEMBLY
02C-01 – 02C-02	AILERON CABLE SYSTEM INSTALLATION-FUSELAGE
02D-01 – 02D-02	FLAP LEVER ASSEMBLY & INSTALLATION
02E-01 – 02E-02	THROTTLE LEVER INSTALLATION

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### SECTION 03 - ENGINE - 912

03-01	ENGINE MOUNT & ENGINE INSTALLATION
03A-01	FUEL LINE INSTALLATION- FIREWALL FORWARD
03B-01 – 03B-02	THROTTLE CABLE & CHOKE INSTALLATION
03C-01 – 03C-02	LUBRICATION SYSTEM ASSEMBLY & INSTALLATION
03D-01	COOLING SYSTEM INSTALLATION
03E-01	MUFFLER/ HEATER WRAP ASSEMBLY & INSTALLATION
03F-01	HEATER INSTALLATION
03G-01 – 03G-02	CARB HEAT INSTALLATION



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### SECTION 04 - INSTRUMENTS & ELECTRICAL

04-01	BATTERY BOX ASSEMBLY & INSTALLATION
04A-01	INSTRUMENTS & ELECTRICAL
04B-01	ELT & COMMUNICATION ANTENNA INSTALLATION

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### SECTION 05 - WINGS

05-01 – 05-05	MAIN STRUCTURE ASSEMBLY
05A-01 – 05A-03	FUEL TANK ASSEMBLY & INSTALLATION
05B-01	AILERON BELLCRANK & CABLE INSTALLATION
05C-01 – 05C-9	RIB & SHEET METAL INSTALLATION
05D-01 – 05D-03	AILERON & FLAP ASSEMBLY & INSTALLATION
05E-01 - 05E-02	LIFT STRUT ASSEMBLY
05F-01	WING TIP ASSEMBLY & INSTALLATION
05G-01	ROOT SKIN INSTALLATION
05H-01 – 05H-05	WING INSTALLATION

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### SECTION 06 - EXTERNAL ASSEMBLIES

06-01 – 06-05	BOOT COWL & INSTRUMENT PANEL INSTALLATION
06A-01 – 06A-06	FORMED WINDSHIELD ASSEMBLY & INSTALLATION
06B-01 – 06B-02	DOOR ASSEMBLY - LEXAN & TRIM
06C-01 – 06C-02	DOOR LATCH & DOOR INSTALLATION
06D-01 – 06D-02	SPINNER ASSEMBLY & INSTALLATION
06E-01	PROPELLER INSTALLATION
06F-01 – 06F-02	COWLING ASSEMBLY & INSTALLATION

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### SECTION 07 - COVERING

07-01 – 07-03	GENERAL INFORMATION
07A-01 – 07A-04	WINGS
07B-01	AILERONS & FLAPS
07C-01 – 07C-04	FUSELAGE
07D-01 – 07D-02	HORIZONTAL STABILIZER
07E-01	RUDDER
07F-01	ELEVATOR
07G-01	DOORS

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### SECTION 08 - INTERNAL ASSEMBLIES

08-01 – 08-02	BAGGAGE COMPARTMENT ASSEMBLY & INSTALLATION
08A-01 – 08A-02	SEAT ASSEMBLY & INSTALLATION
08B-01	SEAT BELT ASSEMBLY & INSTALLATION
08C-01	RUDDER CABLE GUARD INSTALLATION
08D-01	STATION 3 CLOSE OUT INSTALLATION
08E-01	THROTTLE CABLE COVER INSTALLATION

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### SECTION 09 - RIGGING

09-01	ELEVATOR MASS BALANCE
09A-01 – 09A-04	WINGS
09B-01 – 09B-04	TAIL SURFACES
09C-01	CARBURETOR HEAT
09D-01	CABIN HEAT
09D-01	PARK BRAKE
09D-01	THROTTLE & CHOKE

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## **TEXT MANUAL**

### **SECTION 10 - OPERATIONS**

10-01 – 10-02	WEIGHT & BALANCE
10A-01 – 10A-03	LIMITATIONS
10B-01 – 10B-12	NORMAL PROCEDURES
10C-01 – 10C-07	EMERGENCY PROCEDURES
10D-01 – 10D-02	AIRCRAFT CARE

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## **TEXT MANUAL**

### **SECTION 11 - OPTIONS**

11-01	WINTERIZATION KIT
11B-01 – 11B-02	WHELEN STROBE INSTALLATION
11C-01 – 11C-02	SENENICH COMPOSITE PROP INSTALLATION
11D-01	WARP DRIVE PROP INSTALLATION
11E-01	WHIRL WIND PROP INSTALLATION