

# CUSTOM KIT



P. O. Box 3149 Albany, GA 31706-3149 Phone : (229) 883-1440 Fax: (229) 439-9790

## Custom Kit No. CK-AG-34

### FIELD CONVERSION OF S2R-T65DC TO S2RHG-T65DC

This custom kit will identify the major assemblies required to convert an S2R-T65DC to an S2RHG-T65DC.

#### EFFECTIVITY:

MODEL	SERIAL NUMBER
S2R-T65	T65-010DC

#### REASON FOR PUBLICATION:

To allow operators of S2R-T65DC aircraft certified at a Certified Gross Weight of 6,000 pounds under the provisions of CAM 8 to have their aircraft re-certified as HG (high gross aircraft, with a Certified Gross Weight of 10,500 pounds and a Certified Landing Weight of 7,600 pounds under the provisions of AC21.25B and Part 23.

#### COMPLIANCE:

This conversion is optional. It can be done at the owner's discretion.

#### APPROVAL:

The technical parts of this bulletin are FAA approved.

#### BY WHOM WORK WILL BE ACCOMPLISHED:

Inspection accomplished by FAA DAR Inspector or Equivalent.

Any Assembly changes accomplished by an A&P mechanic.

#### ESTIMATED MAN-HOURS:

Assembly Changes - Man-hours will vary according to the number and types of assemblies that must be changed.

Inspection – Four

# CUSTOM KIT



P. O. Box 3149 Albany, GA 31706-3149 Phone : (229) 883-1440 Fax: (229) 439-9790

## ACCOMPLISHMENT INSTRUCTIONS:

### A. Remove and replace the airframe components as follows:

#### 1. FUSELAGE ASSEMBLY:

Assembly 10601-234 or Previous  
Remove Per S2R-T65 Maintenance Manual Instructions

Assembly 10601-240  
Install Per Drawing 10601

#### 2. WING ASSEMBLIES:

Assembly 20209-160L (left) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

Assembly 20209-160R (right) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

HG Assemblies 20209-183 (left) and 20209-184 (right)  
Install Per Drawing 20209

#### 3. AILERON ASSEMBLIES:

Assembly 52081-1 (left or right) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

HG Assemblies 52081-901 (left) and 52081-902 (right)  
Install Per Drawing 52081

T-extruded Male Tab Part Number 21189-1 (2 required)  
Install as per factory drawing 70084 in left & right wing aileron bay areas.

# CUSTOM KIT



P. O. Box 3149 Albany, GA 31706-3149 Phone : (229) 883-1440 Fax: (229) 439-9790

## 4. ELEVATOR ASSEMBLIES:

Assembly 40058-501 (left) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

Assembly 40058-502 (right) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

HG Assemblies 40058-501 (left) and 40058-502 (right)  
Install Per Drawing 40058

or

HG Assemblies 40058-503 (left) and 40058-504 (right)  
Install Per Drawing 40058

## 5. RUDDER ASSEMBLIES:

Assembly 40226-1 or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

HG Assembly 40226-501  
Install Per Drawing 40226

## 6. LANDING GEAR ASSEMBLIES:

Assembly 50384-501 (left) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

Assembly 50384-502 (right) or previous  
Remove Per S2R-T65 Maintenance Manual Instructions

HG Assemblies 50384-503 (left) and 50384-504 (right)  
Install Per Drawing 50384

## 7. AUXILIARY FUEL SYSTEM

Modify the existing fuel system to include the components for Auxiliary Fuel per Drawing 21165.

# CUSTOM KIT



P. O. Box 3149 Albany, GA 31706-3149 Phone : (229) 883-1440 Fax: (229) 439-9790

## 8. AIRSPEED INDICATORS:

Airspeed Indicator P/N 20353-09 (159 mph Vne) – Remove from front and rear cockpits.

Airspeed Indicator P/N 20353-010 (220 mph Vne) – Install in front and rear cockpits.

## 9. PLACARDS:

Remove Placard P/N 21436-157

THIS AIRPLANE MUST BE OPERATED AS A RESTRICTED CATEGORY AIRPLANE IN ACCORDANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS AND THE AIRPLANE FLIGHT MANUAL. NO AEROBATIC MANEUVERS INCLUDING SPINS APPROVED.

DESIGN MANEUVERING SPEED – 126 MPH, MAX FLAP DOWN SPEED – 123 MPH. MAX CROSSWIND VELOCITY LANDING – 15 MPH. MAIN TANK USABLE CAPACITY – 114 GALS. EACH SIDE.

THE FLIGHT OPERATION OF THIS AIRPLANE IS LIMITED TO DAY AND NIGHT CONDITIONS. FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED.

Remove or Obliterate Placard Located adjacent to hopper lid (if installed)

HOPPER LOADS CAUSING THE AIRCRAFT GROSS WEIGHT TO EXCEED 6000 LBS. ARE NOT APPROVED WITHOUT PRIOR COMPLIANCE WITH CAM 8.10-3

Install Placard P/N 50175-673 in accordance with Flight Manual Location

THIS AIRPLANE MUST BE OPERATED AS A RESTRICTED CATEGORY AIRPLANE IN ACCORDANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS AND THE AIRPLANE FLIGHT MANUAL. NO AEROBATIC MANEUVERS INCLUDING SPINS APPROVED.

DESIGN MANEUVERING SPEED – 167 MPH, MAX FLAP DOWN SPEED – 157 MPH. MAX CROSSWIND VELOCITY LANDING – 20 MPH. MAIN TANK USABLE CAPACITY – 114 GALS. EACH SIDE.

AUX TANK USABLE CAPACITY – 34 GALS. EACH SIDE.

THE FLIGHT OPERATION OF THIS AIRPLANE IS LIMITED TO DAY AND NIGHT VFR AND IFR CONDITIONS. FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED.

Install Placard P/N 50175-631 in accordance with Flight Manual Location

AUX FUEL IS LIMITED TO CRUISE FLIGHT CONDITIONS, EXCEPT DURING EMERGENCY.

# CUSTOM KIT



P. O. Box 3149 Albany, GA 31706-3149 Phone : (229) 883-1440 Fax: (229) 439-9790

Install Placard P/N 50175-632 in accordance with Flight Manual Location  
ELECTRIC BOOST PUMP AND MANUAL IGNITION SHOULD BE TURNED ON PRIOR  
TO SWITCHING TANKS.

Install Placard P/N 9051-50 in accordance with Flight Manual Location  
FUEL – 35 GAL. CAP. JET A, JET B, JP-4, JP-5

## 10. FLIGHT MANUAL & MAINTENANCE MANUAL

Discard existing S2R-T65 Flight Manual and replace with S2RHG-T65 Flight Manual.

Discard existing S2R-T65 Maintenance Manual and replace with S2RHG-T65 Maintenance Manual

## 11. DATA PLATE

Install additional data plate identifying the aircraft as being converted to HG configuration. The data plate shall read as follows:

Modified to S2RHG-T65  
Date: \_\_\_\_\_

The date on the data plate shall be the date on which the aircraft is returned to service.

The data plate shall be made of stainless steel or other equivalent fireproof material with permanent markings. It shall be attached using six each, CR3212-4-2 Cherrymax Rivets adjacent to the existing aircraft data plate.

## 12. WEIGHT & BALANCE, LIST OF REQUIRED EQUIPMENT

Aircraft shall be re-weighed and a new S2RHG-T65 Weight & Balance shall be inserted into the flight manual. A new S2RHG-T65 Installation List of Required Equipment shall be attached to the new Weight & Balance.

# CUSTOM KIT



P. O. Box 3149 Albany, GA 31706-3149 Phone : (229) 883-1440 Fax: (229) 439-9790

- B. Make appropriate aircraft record and logbook entries of any assembly change. An inspection by an FAA-DAR Inspector or equivalent may then be accomplished for determination of conversion to HG configuration.

After inspection of Aircraft and Records, DAR Inspector will replace the existing Airworthiness Certificate with an Airworthiness Certificate identifying the aircraft as being a model HG (high gross).

Aircraft shall be re-registered with the FAA Aircraft Registry as a Model S2RHG-T65.

## C. RECORD OF COMPLIANCE:

Make appropriate entry in the airplane maintenance records as follows:

“FIELD CONVERSION OF S2R-T65DC, SERIAL NUMBER \_\_\_\_\_ TO S2RHG-T65DC. CK-AG-34 completed on \_\_\_\_\_ by \_\_\_\_\_ at Airplane Total Time \_\_\_\_\_ hours.”

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

Provide a copy of the completed entry to Thrush Aircraft, Inc. so the manufacturer will have a record of the change of status for the aircraft.