

Rockwell service letter No. SL-AG-60

International

P.O. BOX 3090 ALBANY, GEORGIA 31706-3090 PHONE 229/883-1440 FAX 229/439-9790

Service Letter No. SL-AG-60
May 15, 1971

FUEL GAUGE TANK UNIT

EFFECTIVITY: Aero Commander Model S-2R Thrush, Serial Numbers 1419R through 1499R and 1501R through 1509.

RECOMMENDED COMPLIANCE: Owner's Discretion

APPROVAL: FAA Approved

PURPOSE:

The existing fuel gauge unit is constructed by spot welding the float support arm to the mounting flange. There have been several reports of the welds coming loose. This causes the float arm to re-position itself and a false reading is received.

We now have a die cast and a very sensitive tank unit to correct this problem.

These tank units are interchangeable with our present units.

An immediate inspection should be made of the existing tank units to determine their workability. Inspections should be made at 25 hours intervals until such time when the new tank units are installed.

It is suggested that when this change is made, the 1970 model instrument panel receiver be installed also.

This is a highly sensitive and precision instrument with adjustable stops at both high and low settings. The usable fuel changes from 98 gallons to 104 gallons when the new sensitive fuel tank sender unit and the new fuel gauge are installed as one system due to their accuracy.

As a resolution, the following instructions are recommended:

INSTRUCTIONS:

1. Remove existing tank units.
2. Clean bushings and area around removed units with Methyl Ethyl Ketone (M.E.K.).
3. Install new units with existing bushings and new hardware furnished with lit No. 60A.
4. Install Teflon washers (Part No. 11066-1) under the screw heads. The tank unit float should rest on tank bottom after installation.
5. Secure existing wire to tank unit with hardware on new unit. No sealing around mount screws is required.

SUPPLY DATA:

The parts listed below for Kit 60A may be ordered from your nearest Aero Commander dealer.

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
2	C-7740-30 (Rochester)	Liquid level sender
10	AN526-1032-24	Screw
10	11066-1	Teflon washer
10	AN960C-10	Washer
10	MS20363-1032	Nut
1L – 1R	20343-2 (optional)	Wing walk

NOTE: On earlier aircraft, the wing walk covered the screw heads that secured the tank units to the tank top. On later aircraft, the walk was punched to expose the screw heads.

The un-punched sections will have to be removed to allow access to the screws. Pre-punched walks are available. When ordering kits, specify if punched walk is required.

OPTIONAL RECEIVER INSTRUCTIONS:

1. Remove existing receivers and mounting brackets. Remove cover plate from unused 3 1/8 inch diameter hole in left hand instrument panel.
2. Drill .471 diameter hole, 3 1/4 up and 4 1/8 inches to left of lower right hand corner of left hand instrument panel. Install MS35058-23 switch and 90312-1 placard.
3. Install the ESK-T-001 gauge-receiver assembly behind the 3 1/8 inch diameter cut-out in the panel. Install eye-brown light and wires furnished with kit per Drawing 90165.
4. After the installation is complete, the gauges should be adjusted in the following manner:
 - A. Connect battery charger to battery to simulate charge produced when aircraft is in operation.

- B. Turn battery switch to "on" position.
 - C. Turn fuel quantity switch to L/H tank.
 - D. With tank unit float resting on bottom of fuel tank, set receiver needle to empty mark by adjusting screw on front of gauge unit.
 - E. Raise float to touch top of fuel tank and set needle to full mark by adjusting screw on trimmer on rear of receiver unit.
 - F. Turn fuel quantity switch to R/H tank and check full and empty setting.
5. After gauges are adjusted, replace the existing usable fuel marking on the fuel selector valve with the 90317-1 placard. Replace the existing operational placard on the right hand instrument panel with the 90255-1 placard.

OPTIONAL RECEIVER SUPPLY DATA:

The parts listed below for Kit 60B may be ordered from your nearest Aero Commander dealer.

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	ESK-T-001	Gauge-receiver assembly
1	MS35058-23	Switch
1	90312-1	Placard
1	90176-46	Wire
1	90176-47	Wire
1	90317-1	Placard
1	90255-1	Placard
2	GE327 (G.E.)	Bulb
1	B4755-1 (Grimes)	Light fixture
1	90165	Drawing
1	60633	Drawing
1	90321	Drawing

AIRCRAFT RECORDS:

Make an appropriate entry in aircraft permanent maintenance records as follows: Service Letter No. 60, dated May 15, 1971, entitled "Fuel Gauge Tank Unit", accomplished _____ (date) _____.