



The New Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, Florida, U.S.A. 32960

SERVICE No. 1032 LETTER

Date: March 13, 2001 (S)

SUBJECT:

AVAILABILITY OF IMPROVED FUEL QUANTITY SENDERS

MODELS AFFECTED:

PA-32R-301 Saratoga II HP
PA-32R-301T Saratoga II TC

SERIAL NUMBERS AFFECTED:

3246088 through 3246176
3257001 through 3257183

COMPLIANCE TIME: At the next regularly scheduled maintenance event or whenever a check of the fuel quantity senders indicates an out-of-tolerance condition.

APPROVAL: The alteration as specified in the instructions section has been shown to comply with the applicable Federal Aviation Regulations and is FAA approved.

PURPOSE: Field reports indicate that in some instances, fuel quantity senders installed on the affected aircraft may be providing erratic or fluctuating indication of fuel quantity, which could display erroneous data on the analog fuel quantity gauge.

This Service Letter announces the availability of improved fuel quantity senders which, when installed, will alleviate the erratic fuel quantity indications.

INSTRUCTIONS:

1. Review maintenance records and logbook entries to determine if both the left and right outboard fuel senders have been replaced with Piper part number 686-202 (left outboard) and Piper part number 686-203 (right outboard) fuel senders.
2. If it is determined that both the left outboard and right outboard fuel senders have been replaced with the Piper part numbers listed in Instruction 1 above, no further action is required. Make a logbook entry indicating compliance with this Service Letter.
3. If it is determined that only one outboard fuel sender has been replaced or that no outboard fuel senders have been replaced, proceed with Instruction 4.
4. At the next regularly scheduled maintenance event, or whenever the analog fuel quantity gauge indicates erratic or fluctuating fuel quantities, accomplish the following:
 - a. Conduct a check of the fuel quantity sender units in accordance with the instructions in the PA-32R-301/301T Airplane Maintenance Manual, Piper part number 761-879, chapter 28, section 28-40-00.
 - b. If the resistance of the fuel senders is not within the tolerance specified in chart 2803 of the PA-32R-301/301T Airplane Maintenance Manual, Piper part number 761-879, chapter 28, section 28-40-00, they must be replaced.

(OVER)

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INSTRUCTIONS: continued

- c. Replace fuel senders as follows:
- 1.) Drain the fuel cells in accordance with the instructions in the PA-32R-301/301T Airplane Maintenance Manual, Piper part number 761-879, chapter 12, section 12-10-00.
 - 2.) Locate the access openings at wing station 129.3 on the wing lower surface, aft of the main spar.
 - 3.) Remove the access covers and locate the fuel senders.
 - 4.) Disconnect the electrical wires from the fuel sender unit terminals.
 - 5.) Remove the five bolts securing the fuel sender units and remove the fuel sender units from the fuel cells.
 - 6.) Insert a new fuel sender, Piper part number 686-202 (left outboard) or Piper part number 686-203 (right outboard) and secure to the fuel cell with the five bolts.
 - 7.) Connect the electrical wires to the new fuel sender terminals.
 - 8.) Replace the access covers.
5. Perform Fuel Quantity Gauge Calibration Procedure in accordance with the instructions in the PA-32R-301/301T Airplane Maintenance Manual, Piper part number 761-879, chapter 28, section 28-40-00.
6. Check for leaks and repair as required.
7. Make a logbook entry indicating compliance with this Service Letter.

MATERIAL REQUIRED: One (1) each, Left Outboard Fuel Sender, Piper part number 686-202, and one (1) each, Right Outboard Fuel Sender, Piper part number, 686-203, per aircraft.

AVAILABILITY OF PARTS: Your Piper Field Service Facility.

EFFECTIVITY DATE: This Service Letter is effective upon receipt.

SUMMARY: Applicable Factory Participation is limited to new aircraft in warranty at the time of compliance. Factory Participation will remain in effect for a period of time **not to exceed 180 days** from the date of this Service Letter.

Please contact your Factory Authorized Piper Service Facility to make arrangements for compliance with this Service Letter in accordance with the compliance time indicated.

NOTE: If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify the factory of address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections/changes should be directed to:

THE NEW PIPER AIRCRAFT, INC.
Attn: Customer Care
2926 Piper Drive
Vero Beach, FL 32960