



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

# SERVICE No. 993 BULLETIN

## PIPER CONSIDERS COMPLIANCE MANDATORY

DATE: March 18, 1996 (M)

**SUBJECT:** KLN-90B GPS Wiring Modification

**MODELS AFFECTED:**

PA-32R-301 Saratoga II HP  
PA-34-220T Seneca IV  
PA-46-350P Malibu Mirage

**SERIAL NUMBERS AFFECTED:**

3213099 through 3213103 and  
3246001 through 3246016  
3448072 through 3448079 and  
3447001 through 3447008  
4622190 through 4622200 and  
4636001 through 4636013

**COMPLIANCE TIME:** At the next regularly scheduled inspection event, but not to exceed the next one hundred (100) hours time in service.

**APPROVAL:** The technical contents of this Service Bulletin have been approved by the Federal Aviation Administration (F.A.A.).

**PURPOSE:** It has been discovered that the OBS resolver wiring routed from the KLN-90B GPS through the NAV/GPS switching relays to the Horizontal Situation Indicator (HSI) is incorrect and does not meet the current standard recommended by the avionics manufacturer. Analysis of this condition indicates that the error in wiring has no immediate effect on operation or function of the HSI or GPS but may affect long term service life of the HSI. Left uncorrected, the HSI may not respond to GPS commands in the OBS mode of operation. While no error in steering command occurs, the GPS display will continue to say RESET when a new OBS leg selected and the HSI will not respond. This renders the OBS mode inoperative.

This Service Bulletin announces the availability of a KLN-90B OBS resolver Wiring Mod Kit(s), which when installed will alleviate the above described condition.

**INSTRUCTIONS:**

1. All the necessary material and instructions required to comply with this Service Bulletin are contained in the KLN-90B OBS resolver Wiring Mod Kits as listed in Instruction 2 below. Please determine model and serial number applicability prior to order and installation.
2. For PA-32R-301 Saratoga II HP with serial numbers 3213099 through 3213103 and 3246001 through 3246016, install Piper Part Number 766-614, KLN-90B OBS resolver Wiring Mod Kit.  
For PA-34-220T Seneca IV with serial numbers 3448072 through 3448079 and 3447001 through 3447008, install Piper Part Number 766-611, KLN-90B OBS resolver Wiring Mod Kit.  
For PA-46-350P Malibu Mirage with serial numbers 4622190 through 4622200 and 4636001 through 4636013, install Piper Part Number 766-613, KLN-90B OBS resolver Wiring Mod Kit.
3. Make an appropriate Logbook entry of compliance with this Service Bulletin.

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**MATERIAL REQUIRED:** As required by model, one (1) each, KLN 90B OBS resolver Wiring Mod Kit, Piper Part Number 766-614 (PA-32R-301) or Piper Part Number 766-611 (PA-34-220T) or Piper Part Number 766-613 (PA-46-350P), per aircraft.

**AVAILABILITY OF PARTS:** Your Piper Field Service Facility.

**EFFECTIVE DATE:** This Service Bulletin is effective upon receipt.

**SUMMARY:** Applicable factory participation is limited to **aircraft in warranty only** and will remain in effect for a period of time **not to exceed 180 days** from the date of this Service Bulletin.

Please contact your Factory Authorized Piper Service Facility to make arrangements for compliance with this Service Bulletin in accordance with the Compliance Time indicated and to obtain information concerning any applicable factory participation.

**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, and current owner's name and address.

Correction/changes should be directed to:

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