



# SERVICE BULLETIN

No. 630A

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA/DOA SO-1 Approved Modification/Installation FAA Approved

FAA/DOA SO-2 Approved Modification FAA/DOA EA-1 Approved

February 25, 1980 S/M

(Service Bulletin No. 630A supercedes and voids Service Bulletin No. 630, dated December 14, 1978.)

Subject:

Collins VIR-350 and VIR-351  
Navigation Receiver Modification

Reason for Revision:

Add models affected.

Models Affected:

PA-28-161 Warrior II  
PA-28-181 Archer II  
PA-28R-201 Arrow III  
PA-28R-201T Turbo Arrow III  
PA-28-236 Dakota  
PA-32-260 Six  
PA-32-300 Six  
PA-32R-300 Lance  
PA-32RT-300 Lance II  
PA-32RT-300T Turbo Lance II  
PA-34-200T Seneca II  
PA-44-180 Seminole  
PA-18-150 Super Cub  
PA-23-250 (6 Place) Aztec  
PA-25-235/260 Pawnee D  
PA-31 Navajo / PA-31-325 Navajo C/R  
PA-31-350 Chieftain  
PA-31P Pressurized Navajo  
PA-31T Cheyenne II  
PA-31T1 Cheyenne  
PA-36-300 Brave  
PA-36-375 Brave 375  
PA-38-112 Tomahawk  
Aerostar Models 600, 601, 601P

Serial Numbers Affected:

28-7816001 to 28-7916164 Inclusive  
28-7890001 to 28-7990181 Inclusive  
28R-7837001 to 28R-7837317 Inclusive  
28R-7830001 to 28R-7803373 Inclusive  
28-7911001 to 28-7911048 Inclusive  
32-7800001 to 32-7800008 Inclusive  
32-7840001 to 32-7940002 Inclusive  
32R-7880001 to 32R-7880068 Inclusive  
32R-7885001 to 32R-7985040 Inclusive  
32R-7887001 to 32R-7987065 Inclusive  
34-7870001 to 34-7970042 Inclusive  
44-7995001 to 44-7995154 Inclusive  
18-7709001 through 18-7909200  
27-7754001 through 27-7954121  
25-7756001 through 25-7956042  
31-7712001 through 31-7912125  
31-7752001 through 31-7952253  
31P-7730001 through 31P-7730012  
31T-7720001 through 31T-7920094  
31T-7804001 through 31T-7904057  
36-7760001 through 36-7960019  
36-7802001 through 36-7902051  
38-78A0001 through 38-79A1179  
Airframe Serial Number 0281 through 0611

(over)

NOTES:

1. This Service Release affects only aircraft which have either a Collins VIR-350 or VIR-351 Navigation Receiver installed.
2. This Service Release affects any aircraft, regardless of model or serial number, which has a Collins VIR-350 or VIR-351 Navigation Receiver with a serial number among those listed after Instructions, below.

Compliance Time:

Within the next fifty (50) hours of operation or at the next regularly scheduled progressive, 100 hour or annual inspection, whichever occurs first.

Purpose:

There have been reports of interference between the aircraft Communication Transmitters and the Collins VIR-350 or VIR-351 Navigation Receivers, when a low frequency in the Communication band is selected on the transmitter and a high frequency in the Navigation Band is selected on the Navigation Receiver, and the pilot activates the Transmitter.

The result of the interference is that the Navigation VOR Course Indication Needle swings to an extreme off course position. When the pilot de-activates the transmitter, the VOR Course Indication Needle swings back to its original position. If the VOR Navigation System is coupled to an autopilot, the course indication needle swing can cause an unexpected and undesirable wing rolling and leveling action of the aircraft.

Collins Avionics Division of Rockwell International has made arrangements with specific Collins Service Centers to modify the VIR-350 and VIR-351 Navigation Receivers. A modified receiver minimizes interference and course indication needle swing. A list of affected receiver Serial Numbers is contained in this Service Bulletin.

Instructions:

1. Check the Serial Number of the VIR-350 or VIR-351 installed in the aircraft.
2. If the Serial Number is not one of the affected serial numbers listed after these instructions, no further action is necessary. Make a log book entry that this Service Bulletin has been complied with.
3. If the Serial Number is an affected serial number, contact a Collins Sales/Service Office, Customer Service Representative (See List provided in this Service Bulletin) to make arrangements to have the receiver modified.
4. The VIR-350 will have the letter "A" and the VIR-351 will have the letter "B" stamped after the serial number on the back plate after the modification has been completed.

Instructions: (continued)

5. When the modified receiver is reinstalled make a log book entry that this Service Bulletin has been complied with.

LIST OF AFFECTED SERIAL NUMBERS:

VIR-350 All, through Serial Number 3700

VIR-351 8428, 8441, 8450, 8454, 8455, 8461, 8463 through 8465, 8467, 8469 through 8472, 8474 through 8478, 8480, 8483 through 8485, 8487, 8489, 8490, 8493, 8495 through 8497, 8499 through 8504, 8506, 8508, 8509, 8511, 8513, 8515, 8517 through 8519, 8521, 8522, 8524 through 8552, 8554 through 8562, 8564 through 8569, 8572, 8574, 8575, 8578 through 8582, 8584 through 8680, 8682 through 8715, 8717 through 8726, 8728 through 8753, 8755 through 8786, 8788 through 9084, 18000 through 20500

Material Required:

Not Applicable.

Availability of Parts:

Not Applicable.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility for assistance to make arrangements for compliance with the provisions of this Service Release in accordance with Compliance Time, indicated. Your Piper Field Service Facility can make prior arrangements with the closest Collins Sales/Service Office, Customer Service Representative for modification of the Navigation Receiver with a minimum amount of inconvenience to you. The Collins Service Centers will perform the modification on your Navigation Receiver on a no charge basis.

(over)

LIST OF ROCKWELL-COLLINS SERVICE CENTERS:

## United States (Domestic):

California

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
750 South Douglas  
El Segundo, CA 90245  
Phone: 213-647-5611

Florida

Rockwell-Collins  
Manchester Bldg.  
8355 Northwest 53rd St.  
Suite 100  
Miami, FL 33166  
Phone: 305-592-7770  
Note: Open 2-2-79

Georgia

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
1591 Phoenix Blvd. Suite 1  
Atlanta, GA 30349  
Phone: 404-996-5400

Illinois

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
1248 Remington Road  
Schaumburg, IL 60172  
Phone: 312-885-7400

Kansas

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
6730 West Kellogg  
Wichita, KS 67209  
Phone: 316-942-4201

New York

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
4 Nevada Drive  
Lake Success, NY 11040  
Phone: 212-343-1600

Texas

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
13740 Midway Road, Suite 702  
Farmers Branch, TX 75240  
Phone: 214-996-5452

Washington

Rockwell-Collins  
Avionics Service Center  
Rockwell International  
550 SW 7th Street  
Renton, WA 98055  
Phone: 206-226-0780

## International:

Australia

Rockwell-Collins  
(Australasia) Pty. Ltd.  
Maroondah Highway  
P. O. Box 200  
Lilydale, Victoria 3140  
Australia  
Phone: Melbourne 726-0766  
Telex: 790-30450  
Cable: Colinrad Melbourne

Brazil

Collins Division  
Rockwell do Brasil, LTDA  
Caixa Postal Box 34043  
20.000 Rio de Janeiro-R.J.  
Brazil  
Phone: 246-3276/286-8829  
Telex: (391) 2123 201  
Cable: Colinrad Rio de Janeiro

Canada

Rockwell Intl of Canada Ltd.  
Collins Canada Division  
150 Bartley Drive  
Toronto, 375 Ontario, Canada  
Phone: 757-1101

LIST OF ROCKWELL-COLLINS SERVICE CENTERS: (continued)

## International: (continued)

England

Rockwell-Collins U.K. Ltd.  
Heathrow House, Bath Road  
Cranford, Hounslow  
Middlesex, England  
Phone: 01-759-9911  
Telex: 851-25463  
Cable: Colinrad Hounslow

France

Rockwell-Collins France, SA  
40/46 Rue de Montlhery  
CIDEX L 127  
94533-Rungis Principal  
Paris, France  
Phone: 687-3102  
Telex: (842) 260771  
Cable: Colinrad Rungis

West Germany

Rockwell-Collins G.M.B.H.  
Gebäude 105  
Flughafen, Rhein Main  
D-6000 Frankfurt  
Phone: (0611) 690-5621 or  
690-5421  
Telex: 4-13-598 COGA

Italy

Rockwell-Collins Italiana, S.p.A.  
Viale Liegi 41  
00198 Rome, Italy  
Phone: 866-498  
Telex: (843) 61410  
Cable: Colinrad Roma