



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.
Gebaeude 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