

**SERVICE BULLETIN NO. 224 - PIPER**



**Piper Aircraft Corporation**  
 Lock Haven, Pennsylvania, U.S.A.

**SERVICE BULLETIN** *No. 224*

**PIPER CONSIDERS  
 COMPLIANCE MANDATORY.**

**April 7, 1965**

SUBJECT: Mitchell Bulletin No. A55 -- Modification of Pitch Servo

MODELS AFFECTED: PA-24-250, PA-24-260 and PA-24-400 Comanches (as listed below)  
PA-30 Twin Comanches (as listed below)

COMPLIANCE DATE: Prior to but not later than next 25 hours of operation.

The modification outlined in Mitchell Industries, Inc. Bulletin No. A55 is applicable to the aircraft listed below by serial numbers:

PA-24-250 Comanches

Applies only to field installation of AltiMatic II with rack and pinion servo.

PA-24-260 Comanches

|         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|
| 24-4000 | 24-4048 | 24-4081 | 24-4112 | 24-4162 | 24-4199 |
| 24-4012 | 24-4049 | 24-4083 | 24-4127 | 24-4170 | 24-4201 |
| 24-4018 | 24-4053 | 24-4100 | 24-4143 | 24-4181 | 24-4205 |
| 24-4036 | 24-4055 | 24-4105 | 24-4148 | 24-4190 | 24-4209 |
| 24-4040 | 24-4057 | 24-4108 | 24-4152 | 24-4194 |         |

PA-24-400 Comanches

|      |       |       |       |       |       |       |        |        |
|------|-------|-------|-------|-------|-------|-------|--------|--------|
| 26-2 | 26-10 | 26-20 | 26-35 | 26-43 | 26-52 | 26-75 | 26-89  | 26-113 |
| 26-3 | 26-12 | 26-21 | 26-36 | 26-44 | 26-54 | 26-76 | 26-91  | 26-114 |
| 26-5 | 26-13 | 26-29 | 26-37 | 26-45 | 26-61 | 26-78 | 26-95  | 26-116 |
| 26-6 | 26-15 | 26-30 | 26-38 | 26-46 | 26-62 | 26-82 | 26-96  | 26-119 |
| 26-7 | 26-17 | 26-31 | 26-39 | 26-48 | 26-63 | 26-83 | 26-99  | 26-120 |
| 26-8 | 26-18 | 26-33 | 26-40 | 26-49 | 26-67 | 26-86 | 26-102 | 26-121 |
| 26-9 | 26-19 | 26-34 | 26-42 | 26-51 | 26-74 | 26-88 | 26-106 | 26-123 |

PA-30 Twin Comanches

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 30-549 | 30-585 | 30-612 | 30-645 | 30-668 | 30-696 | 30-720 | 30-745 | 30-774 |
| 30-551 | 30-588 | 30-614 | 30-647 | 30-669 | 30-698 | 30-721 | 30-746 | 30-775 |
| 30-553 | 30-591 | 30-615 | 30-648 | 30-671 | 30-699 | 30-722 | 30-750 | 30-776 |
| 30-554 | 30-592 | 30-621 | 30-649 | 30-672 | 30-700 | 30-724 | 30-752 | 30-784 |
| 30-556 | 30-593 | 30-622 | 30-651 | 30-673 | 30-702 | 30-726 | 30-754 | 30-785 |
| 30-557 | 30-595 | 30-624 | 30-652 | 30-678 | 30-703 | 30-727 | 30-755 | 30-789 |
| 30-565 | 30-596 | 30-625 | 30-654 | 30-679 | 30-706 | 30-729 | 30-756 | 30-793 |
| 30-566 | 30-597 | 30-626 | 30-655 | 30-680 | 30-707 | 30-730 | 30-760 | 30-803 |
| 30-569 | 30-600 | 30-627 | 30-658 | 30-682 | 30-709 | 30-731 | 30-763 |        |
| 30-572 | 30-602 | 30-632 | 30-659 | 30-684 | 30-710 | 30-734 | 30-764 |        |
| 30-574 | 30-603 | 30-633 | 30-660 | 30-687 | 30-711 | 30-735 | 30-765 |        |
| 30-575 | 30-604 | 30-636 | 30-661 | 30-688 | 30-713 | 30-738 | 30-766 |        |
| 30-579 | 30-607 | 30-638 | 30-664 | 30-690 | 30-715 | 30-739 | 30-767 |        |
| 30-583 | 30-610 | 30-639 | 30-665 | 30-691 | 30-717 | 30-742 | 30-768 |        |
| 30584  | 30-611 | 30-640 | 30-667 | 30-693 | 30-719 | 30-744 | 30-771 |        |

Compliance with this Service Bulletin will be required on all AltiMatic kits in inventory, as follows: Kits Numbers 756 836, 756 837, 756 842 and

756 843. Also, any field installations made prior to the issuance date of this Bulletin and any stock of pitch servos, part number 753 678, received prior to the issuance of this Bulletin must also be modified.

NOTES

1. See Piper Electronic News Letter No. EL-48 for lubrication instructions
2. See sketch below for details and installation of fairlead which is a part of this modification

IMPORTANT

DO NOT FAIL TO COMPLY WITH PARAGRAPH G OF MITCHELL BULLETIN REQUESTING RETURN OF RACK ASSEMBLY WITH SERVO SERIAL NUMBER INDICATED.

Distributors shall order Kit 756 923 in sufficient quantities to comply with this Bulletin. Credit will be issued for the kit and five (5) hours of labor upon return of this servo rack, Piper part number 755 942, (Mitchell No. 44A75-1), accompanied by a Warranty and Credit Claim. It will not be necessary to secure prior claim authorization.

June 11, 1965

SUPPLEMENT TO SERVICE BULLETIN NO. 224

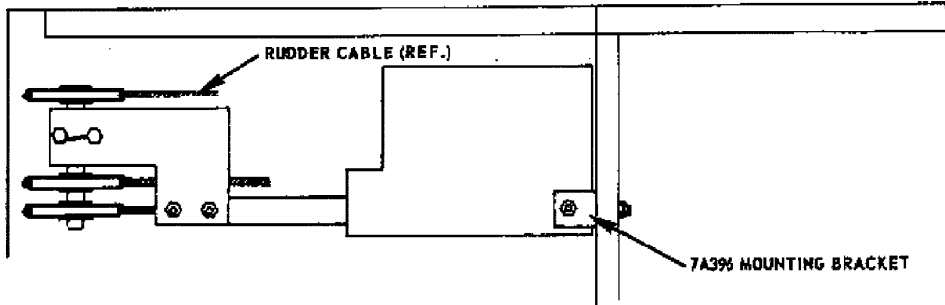
SUBJECT: Mitchell Bulletin No. A-55 - Modification of Pitch Servo

There have been several reports of interference occurring between the pitch servo rack assembly and the screw heads of the AN510-10R16 screws that attach the forward end of the servo to the forward mounting bracket. These screw heads should be inspected to be sure they are flush.

If the screws are not flush, the the pitch servo spacer block, part number 25422 should be removed and the two (2) holes increased to 1/4" diameter. Any subsequent installation should have the holes in the pitch servo block, part number 25422, drilled to 1/4" before it is installed.

NOTE

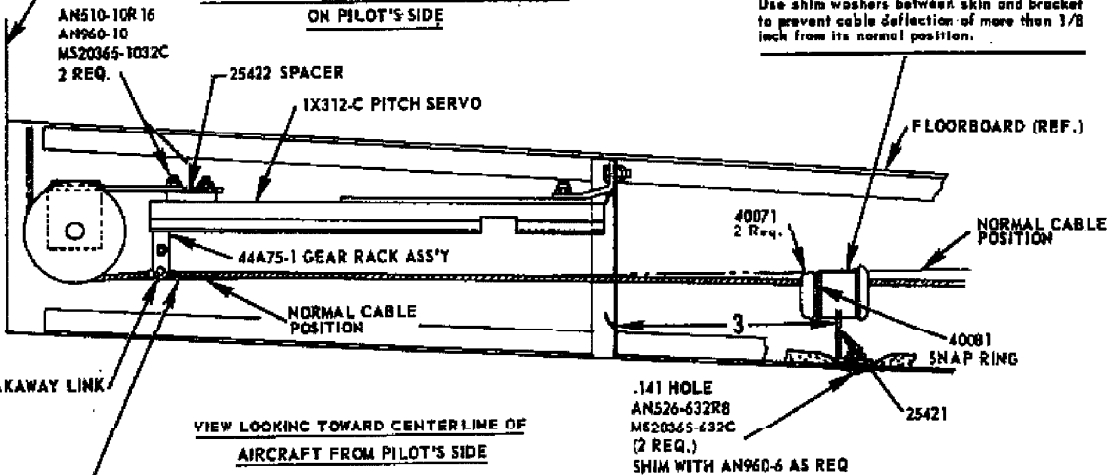
This supplement is a part of and must be attached to Service Bulletin No. 224



FIREWALL (REF.)

VIEW LOOKING DOWN THROUGH FLOORBOARD  
ON PILOT'S SIDE

Install this bracket so the upper portion of the fairlead contacts the top of the cable. Use shim washers between skin and bracket to prevent cable deflection of more than 1/8 inch from its normal position.



Cable must have upward deflection of 1/16" thru full travel of rack assy.

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