

PIPER AIRCRAFT CORPORATION

LOCK HAVEN, PENNA.

REPORT 1545
Supplement No. 1
PAGE 1
MODEL PA-24-260

SUPPLEMENT NO. 1 TO PIPER MODEL PA-24-260 FLIGHT MANUAL

THIS DOCUMENT MUST BE ATTACHED
TO THE BASIC AIRPLANE FLIGHT
MANUAL AND KEPT IN THE AIRPLANE
WHEN THE ITEM OF EQUIPMENT
DESIGNATED BELOW IS INSTALLED.

Approval Basis CAR 3 and
Part 21 Subpart J
May 14, 1969
Piper Model PA-24-260
Equipped with Piper
AutoControl III
Normal Category Only

FAA IDENTIFICATION NO. _____

INSTALLATION OF PIPER AUTOCONTROL III (MODEL AK161)

LIMITATIONS

Disengage during take-off and landing.

Disengage above 210 MPH

OPERATING INSTRUCTIONS

- TO ENGAGE: Push Console Heading Lock button (HDC) to "OFF" position. Center ROLL knob. Push ON/OFF button to "ON" position.
- TO TURN: Rotate console ROLL knob in desired direction.
- FOR HEADING LOCK: Set directional gyro (D.G.) with magnetic compass. Push D.G. HDG knob in, rotate to select desired heading. Push console Heading Lock button (HDG) to "IN" position.
- TO DISENGAGE: Push ON/OFF button to "OFF" position.

NORMAL OPERATION:

1. Be sure airplane is properly trimmed. (Ball Centered).
2. Check vacuum and ascertain that the directional gyro and artificial horizon are functioning properly.
3. Engage AutoControl.
4. (Ground Check Only.) Rotate the ROLL knob full right and full left. Determine that the control wheel describes a corresponding right and left turn, then center knob.
5. Set the directional gyro with the magnetic compass. Push D.G. HDG knob in, rotate to select desired heading.
6. Push Console Heading Lock button to "IN" position. The AutoControl is now "locked-in" for directional control.
7. Turns may be accomplished by either of the following methods:
 - a. Push Console Heading Lock button to "OUT" position. Rotate the ROLL knob in desired direction.
 - b. Push Console Heading Lock button to "IN" position. Select new heading by pushing D.G. HDG knob in and rotating.
8. Maximum angle of bank should not exceed 30°. Maximum angle will be 20° with heading lock engaged.
9. Disengage AutoControl by pushing the ON/OFF button to "OFF" position.

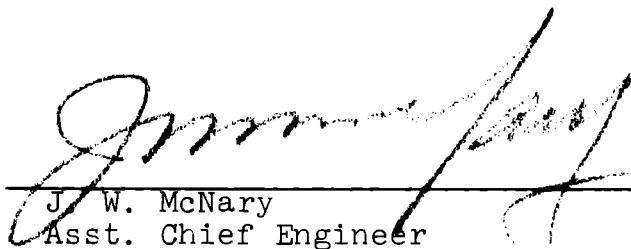
WITH PIPER RADIO COUPLER INSTALLED

The Auto-Pilot is coupled to the VOR NAV receiver in the modes indicated on the function switch.

In the Heading (HDG) mode, the Auto-Pilot is controlled by the directional gyro.

EMERGENCY PROCEDURES

1. In the event of a malfunction in the AutoControl, push the ON/OFF button to "OFF" position. This disengages the AutoControl from the control system.
2. The AutoControl may be overpowered manually.
3. In cruise configuration AutoControl malfunction with a 3 second recovery delay resulted in a 30 degree bank and 50 ft. altitude loss.
4. In approach configuration AutoControl malfunction with a 1 second recovery delay resulted in a 15 degree bank and 30 ft. altitude loss.



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Approval Basis CAR 3 and Part 21 Subpart J
May 14, 1969