

Sandel Avionics Inc.
2401 Dogwood Way
Vista, CA 92081 USA

Supplement No. ST12361LA-T-10

FAA APPROVED
AIRPLANE FLIGHT MANUAL SUPPLEMENT
TO THE

Make and Model Airplane (per AML # ST12361LA-T-16)

Aircraft S/N _____ Aircraft Reg. No. _____

This document must be attached to the FAA Approved Airplane Flight Manual, when the aircraft is modified by the installation of Sandel Avionics SA4550 Primary Attitude Display in accordance with STC no. ST01930LA.

The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitation, procedures, and performance information not contained in this supplement, consult the basic Airplane Flight Manual

FAA APPROVED:



Manager, Flight Test Branch, ANM-160L
Federal Aviation Administration
Los Angeles Aircraft Certification Office
Transport Airplane Directorate

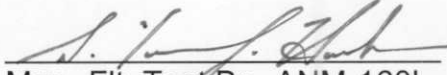
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AFM SUPPLEMENT for
 Models as listed in AML ST12361LA-T-16
 Sandel Avionics SA4550 ADI
 STC No. ST01930LA

Supplement No. ST12361LA-T-10

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SECTION 1: GENERAL

The Sandel Avionics SA4550 Primary Attitude Display is designed to replace traditional Electro-Mechanical Attitude Director Indicators. The SA4550 features include:

- Attitude Display
- Single or Dual Cue Flight Director Display
- Localizer Display
- Glide Slope Display
- Radar Altimeter Display with MIN setting (option)
- Fast / Slow Indicator (option)
- Mode Annunciators
- Slip/Skid Indicator

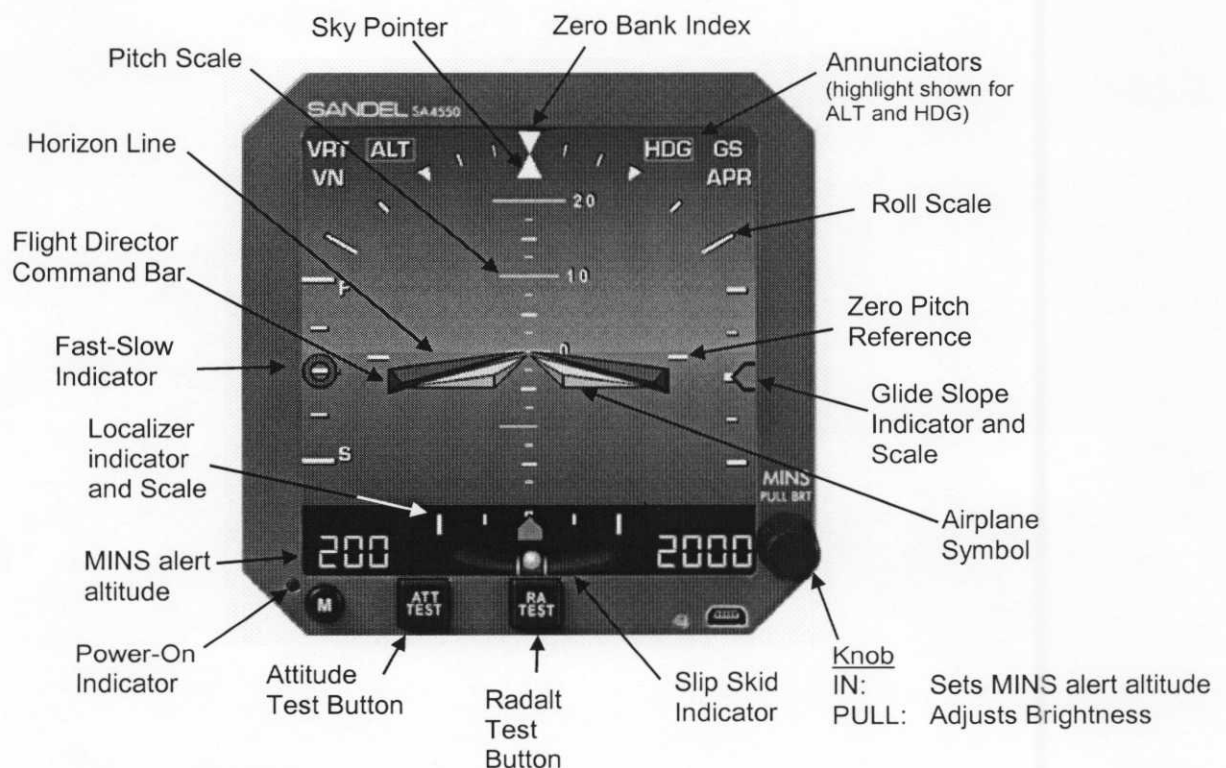


Figure 1: SA4550 Control and Display Layout (Single Cue FD)

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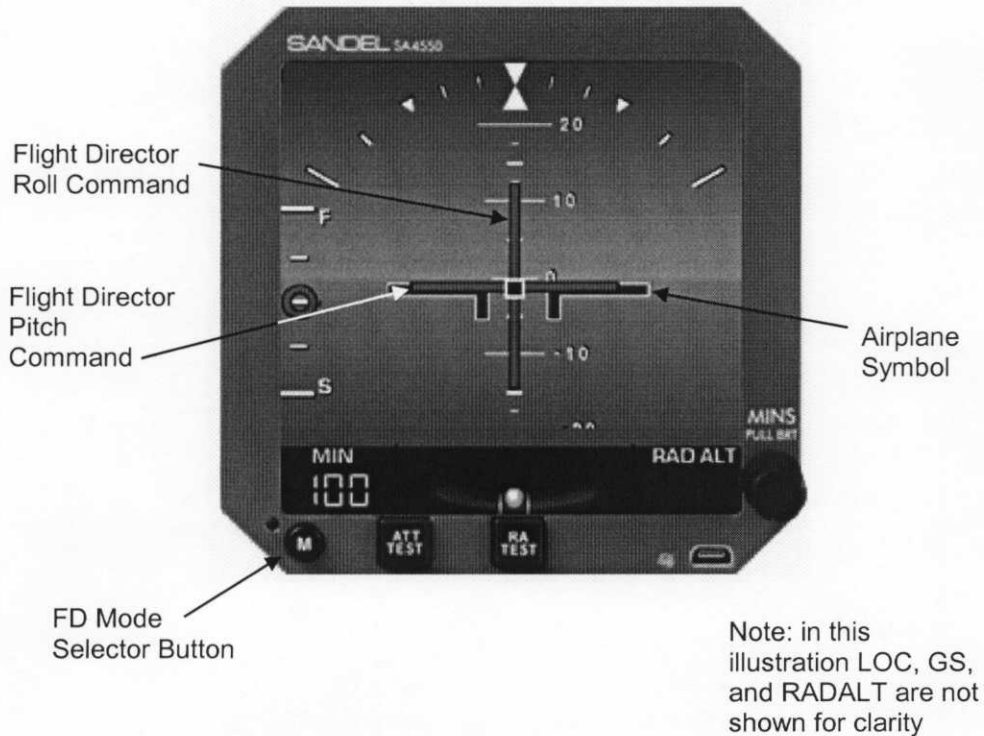


Figure 2: SA4550 Dual Cue FD Differences

SECTION 2: LIMITATIONS

The SA4550 must utilize FAA approved software version 1.00 or later FAA approved version.

The SA4500 Pilots Guide, SPN 82010-PG (applicable revision) must be immediately available to the flight crew.

If flight operations are predicated on the use of the SA4550:

- The ATT TEST function must display a red ATTITUDE flag within 1.5 seconds and must blank the display completely within 5 seconds.
- There must be no anomalies in the horizon line or sky pointer depiction visible and obvious to the pilot.

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SECTION 3: EMERGENCY PROCEDURES

No Change

SECTION 4: NORMAL PROCEDURES

Before each flight press and hold the "ATT Test " button. Verify that:

- The roll attitude moves 10 degrees left
- The pitch attitude moves 10 degrees up.
- The Slip/Skid ball deflects fully to the right.
- The RED Attitude flag is displayed with the text "Att Test"
- The colored text "RED GREEN BLUE" is displayed.
- The display blanks after approximately 5 seconds.

The control knob when pulled displays the BRT setting (0-100) and controls the brightness. The SA4550 will always power up in the full brightness setting.

If Radar Altimeter function is installation enabled:

The control knob when in the "Normal In" position controls the MINS alert altitude setting. This setting is compared to the Radar Altitude and activates the "MIN" annunciator when the Radar Altitude is less than or equal to the MIN setting.

The "RA TST" button when pressed will operate the Radar altimeter test mode.

If installation enabled, pressing the "M" button will toggle the flight director mode between Single Cue and Dual Cue.

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SECTION 5: ABNORMAL PROCEDURES

No Change.

SECTION 6: PERFORMANCE DATA

No Change.

SECTION 7: WEIGHT AND BALANCE DATA

See current weight and balance data.

SECTION 8: SYSTEM DESCRIPTIONS

Refer to the SA4550 Pilot's Guide for other procedures, error messages, alerts and more detailed operating information.