

RADIANT TECHNOLOGY

Pitch Trim system

The Pitch Trim system provides immediate feedback as to aircraft pitch trim position. Trim changes inputs are routed to a unique linear servo which has an IP-54 rating.



1: Display head for Pitch Trim system

FEATURES & SPECIFICATIONS

- ✓ Radiant LCD display with huge numeric indication of current pitch trim position
- ✓ Also provides vertical graph of current pitch trim position
- ✓ Works from +10 to +14V; +28V adapter available
- ✓ Includes 25' wiring harness
- ✓ Display head installs in any 2.25" cutout
- ✓ Trim up to Trim down in <2.5 seconds
- ✓ 30mm (1.25") trim servo stroke provides feedback to display head

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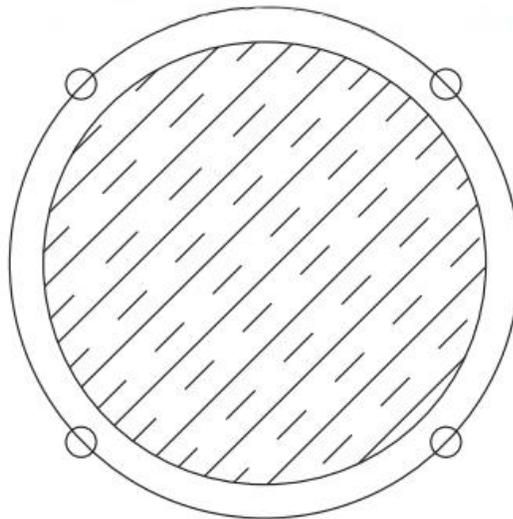


2: Linear servo

- ✓ Installation brackets are included
- ✓ Weight of display head and servo are less than 100 grams

INSTALLATION

- Install display head in any available 2.25" standard cutout.



2.25" Main Cutout. Four 0.170" mounting holes are on 2.625" diameter circle. Inner circle is 2.25".

3: standard 2.25" cutout

- Connect black and red leads to ground and power respectively. Clip off the 9 volt connector.

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- Ensure power source is switched and fused appropriately; 2A breaker recommended. You **MUST** provide an isolated power source for this system!
- Install servo on bottom of your trim tab / elevator. **CAUTION:** you are responsible for determining mechanical mounting of servo; routing of wire harness; AND effectivity of trim tab for controlling aircraft pitch.



4: Typical servo installation on lower elevator

- Route wiring harness from servo to display head.
- Install precision 3 turn potentiometer on your panel.
- Install dimmer potentiometer (smaller of two potentiometers) on your panel.
- Your system should **ALWAYS** allow for emergency deactivation by turning power off.
- Trim Tab should be mass balanced in event of failure or breakage of trim servo.

TESTING

Remember, this is an experimental system, and is not designed to meet any TSO. You are the test pilot.

- Ensure flawless operation on ground before flight.
- Set trim position to expected neutral setting.
- Investigate effect of trim while in ground effect. Do not proceed unless absolutely safe. Abort, land and troubleshoot if otherwise.
- Carefully make slight adjustments while in flight to determine effectivity and integrity.

NORMAL OPERATION

- Rotate the precision potentiometer to command the servo.

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- The buttons on the display screen are not used.

DISCLAIMER

Products from Belite Electronics are not designed to be used in applications where their failure would endanger safe flight or human life in any way. They are intended solely for use in VFR conditions. They are not certified to meet any Technical Standard Order, and are not produced under a Parts Manufacturing Authority (TSO / PMA). As a result, they are suitable only for use in experimental and ultralight aircraft, and in Light Sport Aircraft, if meeting the requirements of the respective manufacture.

WARRANTY

Your new Belite Avionics instrument carries a one year warranty. Please contact us at info@beliteaircraft.com should your product need warranty service. International warranty service will be charged US\$50.00 for repairs, which includes return shipping after repair. Payment must be received before service begins.

RETURN/REFUND INFORMATION

Must be returned in new, resalable condition within 14 days.

CONTACT

info@beliteaircraft.com, 316-253-6746 / Belite Enterprises LLC, 8610 E. 34th Street N. Wichita KS 67226