**CESNA 400 GLIDESLOPE - 14 VOLT (ADDS TO 400 NAV/COM)**

**CANCELLED**

**MODELS AFFECTED**
- 180
- 182
- A185
- U206
- T206
- P206
- TP206
- 210
- T210

**SERIALS AFFECTED**
- 18061876 & on
- 18258506 & on
- 185-1301 & on
- U206-0915 & on
- U206-0915 & on
- P206-0420 & on
- P206-0420 & on
- 21058637 & on
- T210-0308 & on

**PARTS LIST:**

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CHANGE IN WEIGHT & BALANCE:

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1. DESCRIPTION OF INSTALLATION.
   a. (Refer to Figure 1.) Installation of this kit consists of:
      (1) Connection of glideslope switch cable to existing 400 Nav/Com.
      (2) Replacement of existing 400 Nav/Com indicator with a new indicator having glideslope needle.
      (3) Installation and interconnection of wiring.
      (4) Installation of glideslope antenna.
      (5) Installation of glideslope receiver.

2. INSTALLATION INSTRUCTIONS.
   a. (Refer to Figure 2.) Connection of Glideslope Switching Cable to Existing 400 Nav/Com.
      (1) Remove existing 400 Nav/Com receiver-transmitter from dust cover.
      (2) Attach cable assembly (3) to dust cover (4) with screws and washers (1) as shown.
   b. (Refer to Figure 3.) Replacement of existing 400 Nav/Com indicator.
      (1) Remove existing 400 Nav/Com indicator and replace with new indicator.
        Use original screws (5) to mount indicator.

   NOTE
   Leave connector (2) disconnected until wiring is completed.
   (2) Install circuit breaker (6) in unused space on circuit breaker panel.
   c. (Refer to Figure 7.) Installation and Interconnection of Wiring.
      (1) Locate black and black/yellow wires emerging from cable assembly (1). Strip wires and solder to pins 20 and 18 in the top connector on rear of the navigation receiver.
      (2) Locate red wire emerging from cable assembly (1). Strip, terminate and attach wire to circuit breaker (2).
      (3) Disassemble connector (2, figure 3) as required to gain access to solder pots on pins.
      (4) Locate tan/red, red/yel, tan/yel and tan/blue wires emerging from cable assembly (1).
      (5) Strip and solder wires to pins 14, 15, 17 and 18 as shown.
      (6) Reassemble connector and attach to indicator.
      (7) Secure all wiring behind instrument panel to prevent chafing of wires or obstruction of aircraft controls.
Figure 2. Glideslope Cable Connection to Nav Receiver.

Figure 3. Indicator Installation.
CANCELLED

1. S350 Cork Washer 1 Req'd
2. AN960-10L Washer 1 Req'd
3. NAS221-22 Screw 1 Req'd
4. 1/4" (.250) Polished hole as required (refer to instructions)
5. 1270475-243 Cable Assy 1 Req'd
6. S1155-3 Clamp S1022Z8-8 Screw as required (refer to instructions)
7. #30 (.128) hole as required (refer to instructions)
8. 1200098-1 Glideslope Antenna 1 Req'd
9. Retainer (Ref)
10. NAS879A3 Nut 1 Req'd
11. AN960-10L Washer 1 Req'd
12. Bond antenna to windshield with locally obtained epoxy type cement
13. Fwd carry thru spar (Ref)
14. Windshield Center Strip Models 180 and 185 only

UPHOLSTERY RETAINER MODIFICATION DETAILS - ACCOMPLISH AS DESIRED

Figure 4. Glideslope Antenna Installation.
Figure 5. Receiver Support Angles, Fabrication Details.
d. (Refer to figure 4.) Installation of Glideslope Antenna.

(1) Locate and drill hole (4).

NOTE

MODELS 180 & A185: Use hole for existing top screw in windshield center strip.

MODELS 182, 206 & 210: Drill hole in windshield approximately 2.50 inches down from top edge of windshield and 1.00 inches to the right or left of center as required to clear compass wire.

(2) Connect cable assembly (5) to antenna (8) and attach antenna to windshield using screw (3), washers (1, 2 & 11), and nut (10). Apply a small amount of epoxy cement (12) to antenna base before assembly on windshield.

(3) Secure cable assembly to forward carry-thru spar.

NOTE

Installer has the option of securing cable by means of: Clamps and screws (6) located 3 and 12 inches left of aircraft centerline or, on aircraft equipped with upholstery retainers, a 0.25 inch slot may be cut in retainer (9) as shown to clear cable assembly so that it may be concealed behind the upholstery retainer.

(4) Route cable to left doorpost and down under doorpost trim.

e. Installation of Glideslope Receiver.

(1) (Refer to Figure 6, Sheet 1.) Models 182, 210 & T210.

(a) Remove seats, carpets and cover plates as required to gain access to radio shelf area in tailcone and to wire route under floorboard.

NOTE

On Models 210 and T210 access to radio shelf area is obtained by removing bulkhead cover plate on aft side of main landing gear wheel well.

WARNING

Before working in wheel well area, make certain the master switch is off and one of the cables is disconnected from the battery, to prevent possible injury to personnel by doors being inadvertently closed.

(b) Select an unused space on the standard radio shelf in the tailcone which will accommodate the receiver and mount. Using mount (5) as a pattern, drill holes (6) and install rivnuts (6).

(c) Install mount using screws and washers (4 & 5).

(d) Starting at the instrument panel, route cable assemblies (1 & 9) to the remote units location following standard wire route. Secure as required to prevent chafing of wires and obstruction of controls.

(e) Cut cable (1) to length and install connector (8).

(f) Cut cable (9) to length required and install connector (10) in accordance with wiring diagram in figure 7.

(g) Install receiver (2) and mount (3), tighten retention nut on mount, and secure with safety wire.

(h) Attach connectors (8 & 10) to receiver and secure jackscrews on connector (10) with safety wire.
Figure 6. Receiver Installation (Sheet 1 of 3).
Figure 6. Receiver Installation (Sheet 2 of 3).
(2) (Refer to figure 6, sheet 2.) Models 180 & A185.

(a) Remove seats, carpets and tailcone access panel at rear of baggage compartment. Locate tail light wire routing and remove floorboard cover plates as required for access to wire route.

(b) Compare existing radio installations, if any, with that shown. Determine if any existing support hardware may be used to mount the receiver for this installation. Fabricate additional support angles (4 & 6) as required.

(c) Locate and drill holes (12) in angles (4) to match mount (3). Assemble mount and angles with screws and nuts (12).

(d) Locate and drill holes (9) in angle (6).

(e) Attach parts assembled in step (c) to angle (6) with nuts, spacers and screws (7).

(f) Using parts assembled in step (e) as a pattern, locate holes (9) in bulkheads (8 & 5) and skin stiffener angle (10). Drill holes.

(g) Install parts assembled in step (e) with nuts, spacers and screws (7).

(h) Starting at the instrument panel, route cable assemblies (15 & 13) to receiver location following tail light wire route. Secure as required to prevent chafing of wires and obstruction of controls.

(i) Cut cable (15) to required length and install connector (1).

(j) Cut cable (13) to required length and install connector (14) in accordance with wiring diagram in figure 7.

(k) Install receiver (2) on mounting (3) tighten retention nut on mount, and secure with safety wire.

(l) Connect cable assemblies (13 & 15) to receiver and secure jackscrews on connector (14) with safety wire.

(3) (Refer to figure 6, sheet 3.) Model 206 Series.

(a) Remove lower cowl panel for access to radio compartment below engine.

(b) Compare existing radio installations, if any, with the installations shown. Determine if any existing support hardware may be used to mount the receiver for this installation. Fabricate additional support angles (4) as required.

(c) Locate and drill holes (5) in angles (4) to match mount (2).

(d) Attach mount (2) to angles (4) with nuts and screws (5).

(e) Install assembled parts, from step (d), on existing support angles with screws (6) as shown.

(f) Starting at the instrument panel, route cable assemblies (9 & 10) from radio panel unit location, down center of firewall to cable exit point on cabin floorboard just aft of firewall. Route through sleeving in nose wheel well to receiver location in radio compartment. Secure cable as required to prevent chafing of wires or obstruction of the aircraft's controls.

(g) Cut cable assembly (9) to length required and install connector (7) in accordance with wiring diagram in figure 7.

(h) Cut glideslope antenna cable assembly (10) to length required and install connector (8).

(i) Install receiver (1) in mount (2), tighten retention nut on mount, and secure with safety wire.

(j) Connect cables (9 & 10) to receiver and secure jackscrews on connector (7) with safety wire.

(k) Reinstall all items previously removed to facilitate installation.
C. OPERATIONAL CHECK-OUT.

(a) Perform post-installation adjustments, preflight check, and flight checks in accordance with Cessna 400 Glideslope Service Parts Manual.

Figure 6. Receiver Installation (Sheet 3 of 3).
NOTE: DOTTED WIRES AND EQUIPMENT ARE PART OF THE EXISTING 400 NAV/COM INSTALLATION, SOLID WIRES AND EQUIPMENT ARE ADDED WITH THIS KIT.

Figure 7. Wiring Diagram, Cessna 400 Nav/Com With Glideslope.