Title: CESSNA 400 GLIDESLOPE
(ADDS GLIDESLOPE TO CESSNA 300 NAV/COM TYPES RT-515R-1, MOD 1 OR RT-540A)

MODELS AFFECTED
150
F150
172
F172
FR172
180
182
A182
A185
U206 & TU206
P206 & TP206
210
T210

SERIALS AFFECTED
15064533 & on
F150-0068 & on
17254893 & on
F172-0320 & on
FR172EC001 & on
18051775 & on
A182-0057 & on
185-1150 & on
U206-0657 & on
18257026 & on
P206-0307 & on
21050810 & on
T210-0197 & on

NOTE

1. This is a complete installation kit which adds glideslope capability to a Cessna 300 Nav/Com (Type RT-540A or older Type RT-515R-1, Mod 1). Be sure that the Type RT-515R-1 transceiver is stamped "M-1," or later, on the heat sink. This transceiver is also characterized by a green, strip-socket attached to the inboard flange of the navigation receiver inside the RT.

PARTS LIST:

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<th>QUANTITY</th>
<th>PART NUMBER</th>
<th>NOMENCLATURE</th>
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<tr>
<td>1</td>
<td>36300-0000</td>
<td>Harness Kit</td>
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<td>32350-0000</td>
<td>Indicator</td>
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<td>Washer</td>
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<td>Installation Instructions</td>
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CHANGE IN WEIGHT AND BALANCE:

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<tr>
<th>MODEL</th>
<th>150</th>
<th>172, F172, FR172</th>
<th>180, 182, A182, A185</th>
<th>206 Series</th>
<th>210 Series</th>
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<td>WEIGHT INCREASE (pounds)</td>
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<td>37.3</td>
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<td>0.409</td>
<td>0.482</td>
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1. DESCRIPTION OF INSTALLATION

Installation of this kit consists of:

a. Installation of Glideslope Switching Harness.

b. Replacement of Existing Indicator

c. Installation of Glideslope Antenna

d. Installation of Receiver Unit

e. Routing of Cable Assemblies

2. INSTALLATION INSTRUCTIONS

a. Installation of Glideslope Switching Harness (See figure 1).

   (1) Remove receiver-transmitter unit from aircraft.

   (2) Insert pins of P6 (4) into J6 (5) and secure cable assembly (2) as shown with clamp (3),

   screw (6) and nut (7).
Figure 1. Harness Kit Installation

Figure 2. Indicator Installation

**Figure 1.** Harness Kit Installation

- **1.** Grommet - Part of 36201 (Ref)
- **2.** 36201 Harness Assy - 1 Req'd
- **3.** AN5158R10 Screw (Saved When Existing Indicator Was Removed)
- **4.** 8399-0270 Clamp 1 Req'd
- **5.** J5 - Part of NAV/COM 300 RCVR/XMTR (Ref)
- **6.** 104-0016 Screw 1 Req'd
- **7.** 36062-4001 Nut 1 Req'd
- **8.** 214-0014 Grooved Pin 1 Req'd

*Parts requirements listed on this figure are included in 36300-0000 Harness Kit.*

**Figure 2.** Indicator Installation

- **1.** AN5158R10 Screw (Saved When Existing Indicator Was Removed)
- **2.** 32350-0000 Indicator 1 Req'd (Replaces Existing Indicator)
- **3.** MS3057-12A Clamp 1 Req'd
- **4.** MS3106A20-27S Connector 1 Req'd (Replaces Existing Connector-Wire Per Figure 3)
Figure 3. Interconnection Diagram
Figure 4. Glideslope Antenna Installation
Figure 5. Receiver Support Angles, Fabrication Details
MODEL 150

1. 1270475-217 Cable Assembly (Ref)
   Route to Glideslope Antenna
   Following Standard A/C/T Wiring
   Route to Left-Hand Door Post and Up to Antenna.

2. 36440-0000
   Receiver
   1 Req'd

3. 36450-0000
   Mounting
   Attaching Parts:
   AN515-6R10 Screw
   NAS879A08 Nut
   4 Each Req'd

4. Receiver Support Angle
   2 Req'd - (Fabricate Per
   Detail "A" of Figure 5)
   Attaching Parts:
   AN515-8R10 Screw
   NAS879A08 Nut
   2 EA Req'd

5. Forward Support Angle
   1 Req'd - (Fabricate Per
   Detail "A" of Figure 5)
   Attaching Parts:
   AN515-8R10 Screw
   NAS879A08 Nut
   2 EA Req'd

6. D1201-1 Stiffener
   2 Req'd
   MS20470AD4-3 Rivets - 16 Req'd
   Drill Out First Five Rivets Aft of Station 95.00 Bulkhead
   In Juncture of Top and Bottom Tailcone Skins, Center
   Stiffeners On This Hole Pattern and Drill Five Holes
   In Stiffeners To Match Skins. Drill Five Holes In Skin
   Flanges To Match Stiffeners.

7. #10 (.193) Holes
   Two Places
   All Others Are
   #30 (.128)

8. STA. 95

Fig. 6. Receiver Installation (Sheet 1 of 4)
Figure 7. Cable Routing Details, Model 206 Series Only.

3) Route cable assembly out rear of receiver-transmitter and secure grommet (1) in notch with pin (6).

b. Replacement of Existing Indicator (See figure 2).

1) Remove existing omni indicator associated with the receiver-transmitter which has been modified. Save the mounting screws.

2) Disassemble the existing indicator connector and clip off the connecting wires close to the solder joints.

3) Locate the four wires in the -265 cable assembly which run to the indicator (See figure 3).

4) Slide parts for new connector (4) and clamp (3) over the four wires from the -265 cable assembly and the nine existing wires as shown. Solder wires to pins per figure 3. Assemble connector and wrap wires with vinyl or suitable tape before clamping.

5) Install new indicator (2) with screws (1).

c. Installation of Glideslope Antenna (See figure 4).

1) Locate and drill hole (4).

NOTE

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

MODELS 150, 172, 182, 206 & 210: Drill hole in windshield approximately 2.5' down from top edge of windshield and 1.0' to the right or left of center as reqd to clear compass wire.

2) Attach 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 to antenna base as shown 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 & 12 inches left of aircraft centerline, OR, on aircraft equipped with upholstery retainers, a .25" slot may be cut in retainer as shown to clear cable Assy so that it may be concealed behind the upholstery retainer.

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

d. Installation of Receiver Unit (See figure 6).

NOTE

If installation is to be made in either a 150, 160, A185 or 206, fabricate receiver support angles per appropriate detail of figure 5.

1. Install receiver unit per figure 6.

e. Routing of Cable Assemblies.

1) MODEL 206 SERIES: Bring the glideslope antenna and receiver cables together behind the instrument panel and route down center of firewall to cable feed-thru on floorboard. Route to radio compartment and install sleeving and clamps per figure 7 as required to protect cables.

2) ALL OTHER SINGLE ENGINE MODELS: Locate tail light wire running from tailcone to nav lights switch on panel. Remove sufficient seats, carpet and access plates to route antenna and receiver cable assemblies to receiver location following tail light wire route.

3. POST INSTALLATION TESTS AND ADJUSTMENTS

a. The Cessna 400 Glideslope should be tested after installation following procedures outlined in the Cessna 400 Glideslope Service/Parts Manual.