



CLASS III SERVICE INSTRUCTIONS

19, 23, 24, 76

No. 1035
ATA Code 33-40

SUBJECT: LIGHTS - INSTALLATION OF A MOUNTING PLATE FOR WING TIP MOUNTED NAV AND STROBE LIGHT ASSEMBLIES

EFFECTIVITY: BEECHCRAFT A23-19, 19A, M19A and B19, serials MB-1 through MB-520; B19 Sport 150, serials MB-521 through MB-905; 23, A23, A23A, B23 and C23, serials M-2 through M-1361; C23 Sundowner 180, serials M-1362 through M-2195; A23-24 and A24, serials MA-1 through MA-368; A24R, serials MC-2 through MC-95; A24R, B24R and C24R Sierra 200, serials MC-96 through MC-678; Duchess 76, serials ME-1 through ME-6 and ME-8 through ME-132.

REASON: To provide an improved method of replacing nav light bulbs and strobe flash tubes which will not require removal of the wing tip.

COMPLIANCE: At the owner's/operator's discretion, however, Beech Aircraft Corporation recommends this modification be accomplished the next time the wing tip is removed for inspection or lamp replacement.

APPROVAL: FAA Approved - DOA CE-2.

MANPOWER: The following information is for planning purposes only:
Estimated man-hours: 3 hours.
Suggested number of men: 1 man.

MATERIAL: The following parts may be ordered through BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers. The value of the parts required to incorporate these Service Instructions on one airplane is to be advised. Prices, when issued, will be subject to change without notice.

MODEL	PART NUMBER	DESCRIPTION	QUANTITY
All 19, 23 and 24 series airplanes	169-364029-5	Mounting Plate Assy., LH	1 per airplane
All 19, 23 and 24 series airplanes	169-364029-6	Mounting Plate Assy., RH	1 per airplane

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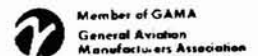
Beech Aircraft Corporation issues service information for the benefit of owners and fixed base operators in the form of three classes of Service Instructions. CLASS I (Red Border) are changes, inspections, and modifications that could affect safety. The factory considers compliance mandatory. CLASS II (Green Border) covers changes, modifications, improvements or inspections the factory feels will benefit the owner and although highly recommended, they are not considered mandatory compliance, unless specified at the time of issuance. Class I and II are mailed to:

- (a) BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers.
- (b) Owners of record on the FAA Registration list and the

BEECHCRAFT International Owner Notification Service List
(c) Those having a publications subscription.

CLASS III (No Border) covers changes which are optional, maintenance aids, product improvement kits and miscellaneous service information. Compliance is at the owner or operator's prerogative. Copies of Class III are distributed per a and c above. Information on Owner Notification Service or Subscriptions can be obtained through any BEECHCRAFT Aero or Aviation Center, International Distributor and Dealer, or the Factory. As Service Instructions are issued, temporary notation in the index should be made until the index is revised. Warranty will be allowed only when specifically defined in the Service Instructions and in accordance with Beech Warranty Policy.

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MODEL	PART NUMBER	DESCRIPTION	QUANTITY
All 76 series airplanes	105-360013-7	Mounting Plate Assy., LH	1 per airplane
All 76 series airplanes	105-360013-8	Mounting Plate Assy., RH	1 per airplane

Rivets and temporary installation screws specified in these Service Instructions may be obtained through local sources.

WARRANTY: None.

SPECIAL TOOLS: None.

WEIGHT AND BALANCE: None.

REFERENCES: None.

PUBLICATIONS AFFECTED: It is recommended that a note to "See Service Instructions No. 1035" be made in the following:

19, 23 and 24 series Shop Manual copies, P/N 169-590015F or subsequent, Section 3;
 76 Maintenance Manual copies, P/N 105-590000-7 or subsequent, Chapter 33-40;
 19, 23 and 24 series Parts Catalog copies, P/N 169-590012I or subsequent, Figure 39;
 B19, C23 and C24R Parts Catalog copies, P/N 169-590026B or subsequent, Figure 39;
 76 Parts Catalog copies, P/N 105-590000-9 or subsequent, Chapter 57-10.

ACCOMPLISHMENT INSTRUCTIONS:

The nav/strobe light mounting plate assembly may be installed as follows on both wing tips.

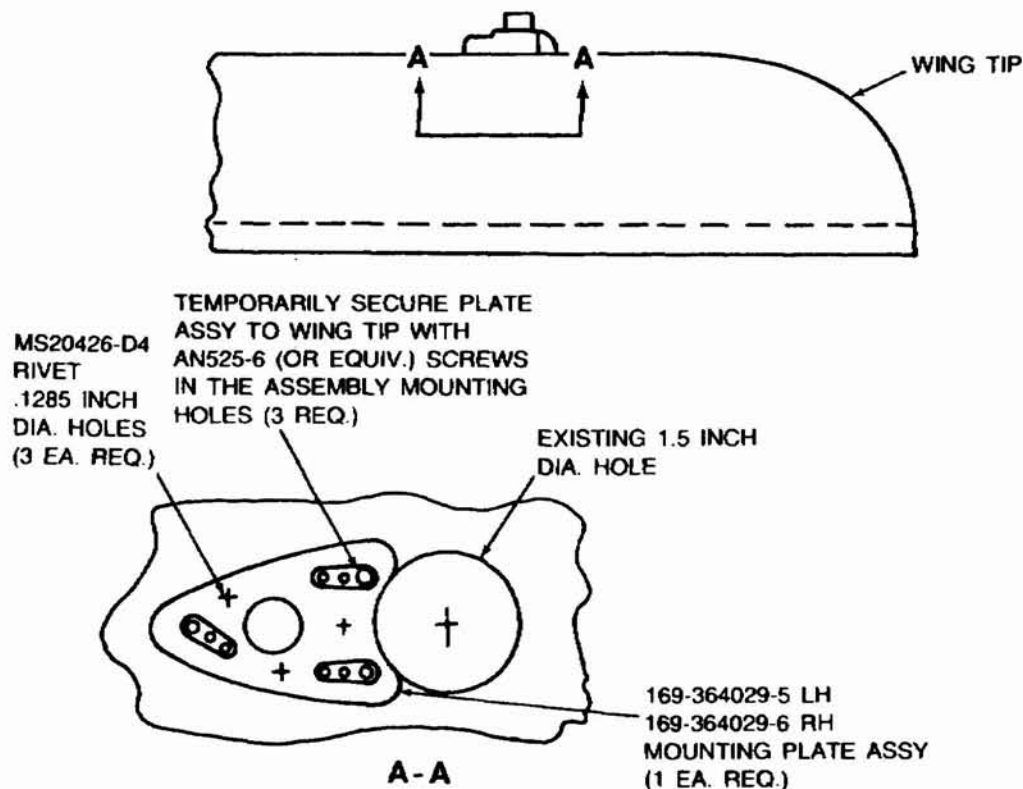


Figure 1. All 19, 23 and 24 Series Airplanes.

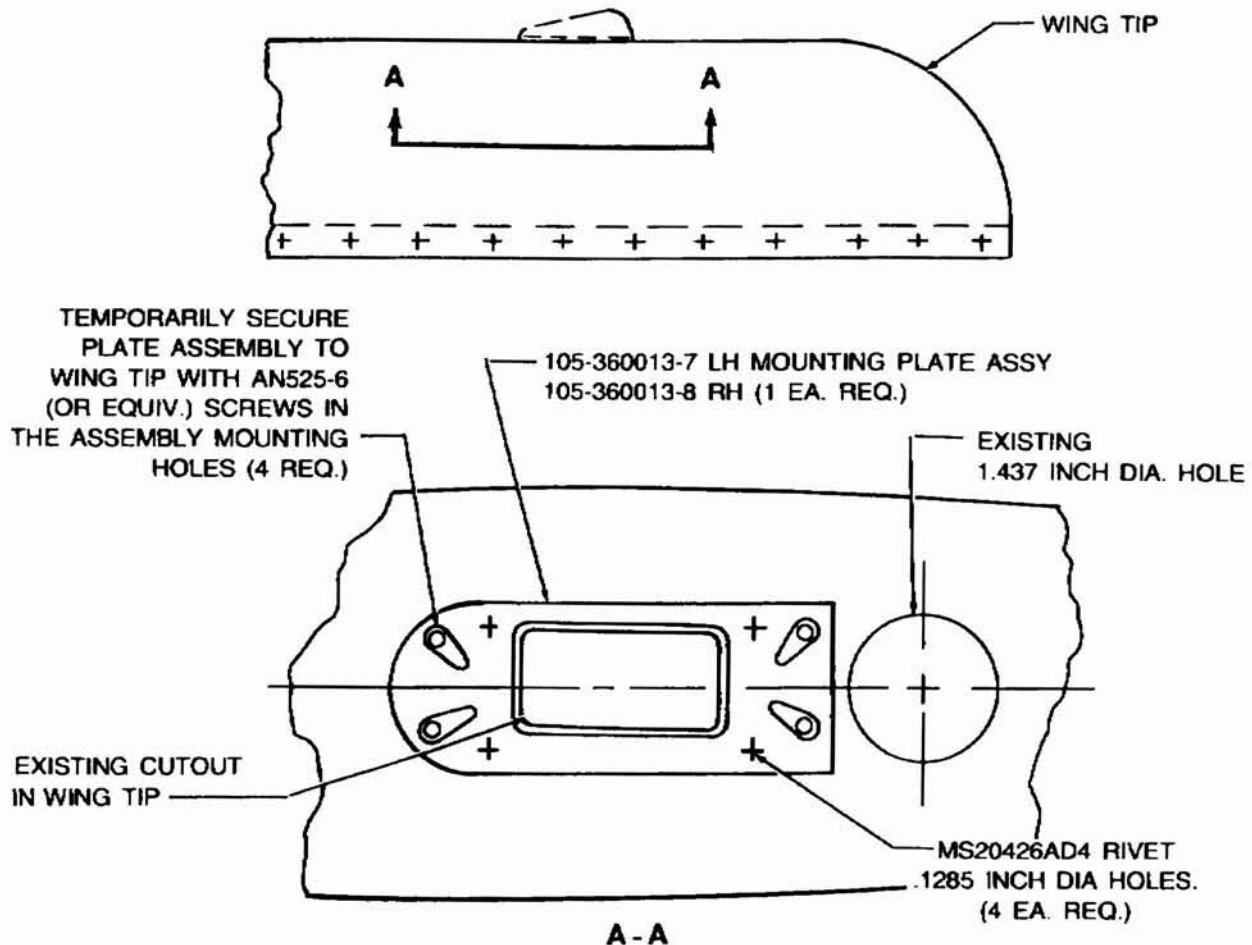


Figure 2. All 76 Series Airplanes.

WARNING

Although a bleed-off resistor is incorporated into the power supply circuit, high voltage is involved in the circuit between the power supply and the light assemblies. For this reason, at least 10 minutes should be allowed after the strobe lights have been turned off before disconnecting the strobe light wiring or handling any of the strobe light units. To further avoid the chance of shock through contact with the wiring at the light assembly, pins A and B of the wire connector should be shorted to pin C (ground) to dissipate any residual charge left in the condenser after the system has been turned off.

1. Remove the wing tip retaining screws, slide the wing tip away from the wing, disconnect the nav/strobe light wiring and the bond jumper and remove the wing tip from the airplane.
2. Remove the three (or four as applicable per model affected) screws and nuts which attach the light assembly to the wing tip and remove the light assembly. Retain the attaching screws, but the nuts may be discarded.
3. Position the applicable new (see MATERIAL for correct part number) mounting plate assembly over the nav/strobe light opening inside the wing tip and temporarily secure the plate assembly to the wing tip with AN525-6 (or equivalent) screws in the light assembly mounting holes. (See figure 1 or figure 2 as applicable.)
4. Using a No. 30 (.1285 inch diameter) drill bit, back drill the mounting holes for the plate assembly through the wing tip from the pre-drilled holes in the plate assembly.
5. Countersink the holes drilled in step 4 on the outside surface of the wing tip and

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install the mounting plate assembly in the wing tip with MS20426AD4 rivets of the appropriate length.

6. Remove and discard the temporary screws which were installed in step 3 and reinstall the light assembly on the wing tip with the existing screws which were removed in step 2.

7. Reconnect the nav/strobe light wiring and the bond jumper and reinstall the wing tip with the existing screws which were removed in step 1.

RECORD COMPLIANCE:

Upon completion of these Service Instructions make an appropriate maintenance record entry.