

Helio Courier Series Aeroplanes

**AD/HELIO/1
Amdt 1**

**Wing Centre Section Main Spar
Carry Thru Assembly**

1/87

Applicability: All models.

- Requirement:
1. For aircraft incorporating wing main spar centre section carry thru assembly P/N 295-030-401, inspect the carry- thru assembly in accordance with Para B) of FAA AD 82-16-08.
 2. Modify the wing centre section carry-thru assembly P/N 391-030-401 or 295-030-401 as applicable, by installing a full span (wing joint to wing joint) fail safe reinforcement of the lower tube in accordance with a scheme approved by the Secretary. FAA STC's SA 1590CE and SA 1728CE, respectively, are approved schemes.
 3. After modification in accordance with 2 above, inspect the carry-thru assembly in accordance with Para D) of FAA AD 82-16-08.

Compliance: For Para 1: At intervals not exceeding 100 hours time in service, until modified in accordance with Para 2.

For Para 2: For land planes - prior to exceeding 2000 hours time in service.

For float planes or aircraft which have at any time had floats installed - prior to exceeding 2000 hours equivalent land plane time in service. To convert float plane time to equivalent land plane time, multiply by two.

For Para 3: At intervals not exceeding 1500 hours time in service.

Background: Fatal accidents have occurred overseas as a result of fatigue failures of the wing spar carry-thru assembly lower tube or end fitting. This Directive combines the requirements of the previous AD/HELIO/1 and AD/HELIO/3 Amdt 1 but provides for fail safe reinforcement modification rather than retirement. Most importantly, it eliminates confusion over the "modification" aspect of those earlier AD's; it was not clear that the modification referred to is the joint to joint straps across the full span of the lower tube, rather than the end reinforcement only (ie. the P/N 295-030-401 configuration).