

ROBINSON HELICOPTER COMPANY

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SERVICE BULLETIN #47

DATE: 13 January 1986

TO: R22 Owners and Operators

SUBJECT: Inspection of A020-2 Upper Steel Tube Frame.

ROTORCRAFT AFFECTED: Aircraft S/N 0002 through S/N 0311 except those aircraft having A020-2 Frame S/N 400 and on installed.

TIME OF COMPLIANCE: Within the next 50 flight hours and every 50 hours thereafter until the A020-2 Frame S/N 0002 through S/N 0403 is replaced.

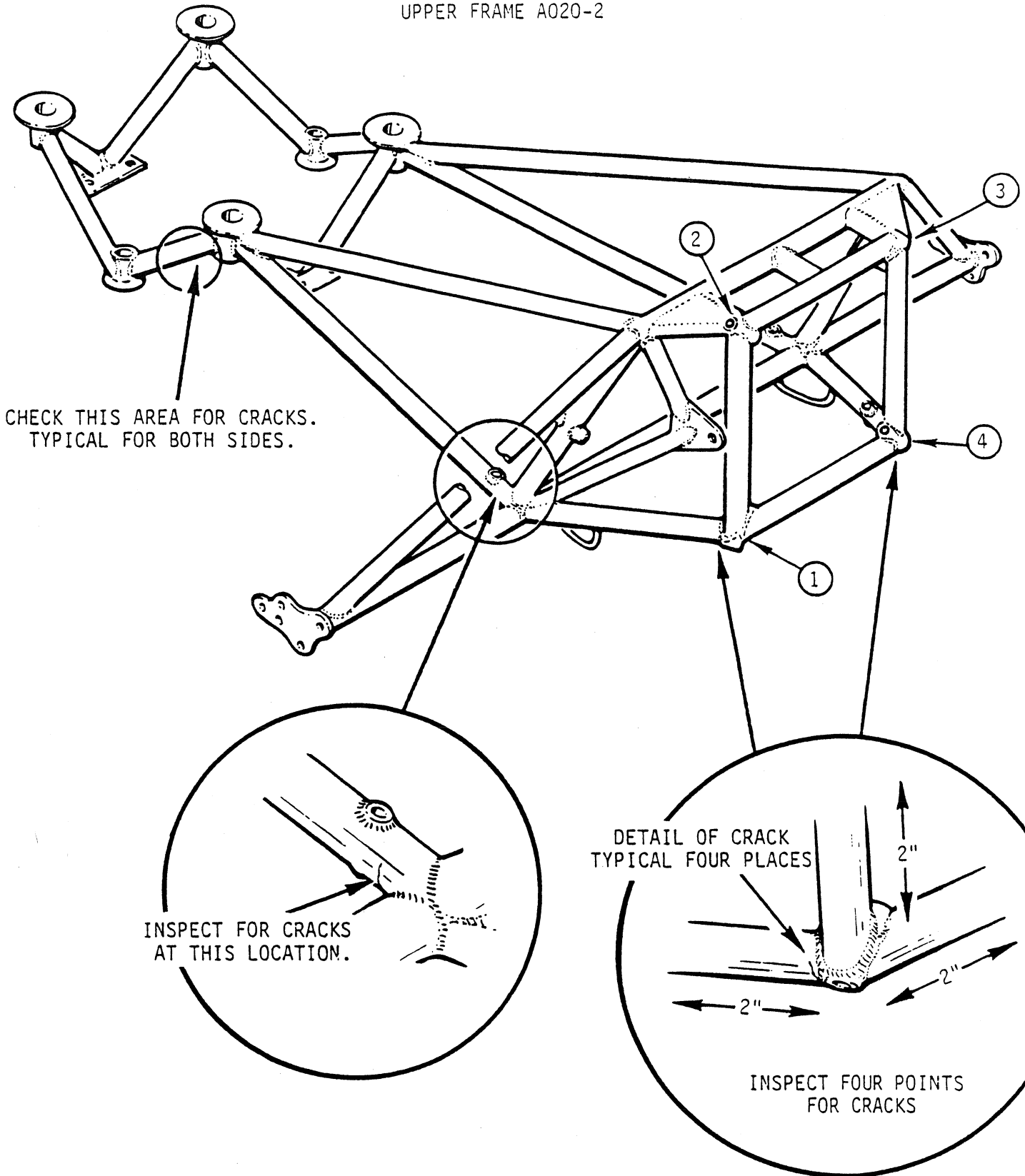
NOTE: This SB supercedes SB-3, SB-18, and SB-23 and complies with AD 82-11-01. (SB-4 and AD 80-24-01 are still in effect.)

BACKGROUND: Fatigue cracks have been found in various locations on older A020-2 upper frames. These areas may have been overlooked during normal periodic inspections.

INSPECTION PROCEDURE:

1. Using inspection mirror and a high intensity light visually inspect all weld areas of the A020-2 frame. Pay particular attention to those areas shown in the following figure.
2. Check for cracks in and around each weld bead and along each steel supporting tube for at least two inches from the weld bead.
3. A logbook entry must be made by the licensed mechanic performing each 50 hour inspection.
4. Pilots should also be instructed to include a visual check of the A020-2 upper frame as part of their daily preflight. A logbook entry is not required for the pilot's preflight check.
5. If a crack is found, the frame must be immediately removed from service and replaced with a new frame. No repair of a cracked frame is allowed.

UPPER FRAME A020-2



Inspect all tubes for cracks with particular attention to the areas indicated above.

FIGURE 1