

R44 SERVICE BULLETIN SB-104
(supersedes R44 SB-98B)

DATE: 11 March 2020

TO: R44-series Owners, Operators, and Maintenance Personnel

SUBJECT: Air/Oil Separator Hose

EFFECTIVITY: R44 Helicopters S/N 2566 thru 2607 except 2600. R44 II Helicopters S/N 14284 thru 14384 except 14381 and 14382. R44 Cadet Helicopters S/N 30044 thru 30065 except 30047 and 30061. Also helicopters retrofitted with air/oil separators.

TIME OF COMPLIANCE: Within next 150 flight hours or by 31 May 2020, whichever occurs first.

BACKGROUND: RHC received a report of a kinked A729-75 hose, installed between the engine and C728-2 air/oil separator assembly. The kinked hose caused the crankcase to vent through the separator drain back tube resulting in loss of engine oil. R44 SB-98B required a spring to be inserted inside the hose to prevent kinking. However, RHC has found that the hose is still susceptible to kinking. This bulletin requires replacing the A729-75 hose & spring with an A785-43 wire-reinforced hose.

COMPLIANCE PROCEDURE:

1. Refer to Figure 1. For each affected helicopter, obtain one A785-43 crankcase breather hose, available from RHC Customer Service.
2. Remove engine RH cowling. R44 IIs only: Remove air box assembly per R44 Maintenance Manual (MM) § 6.470.
3. Loosen B277-4 clamp and disconnect black oil drain tube from air/oil separator's can.
4. Loosen screw securing separator's breather tube.
5. Remove screw securing air/oil separator's can-to-frame clamp.
6. Loosen B277-12 clamps and remove A729-75 hose and D774-20 spring; retain clamps and discard hose and spring.

(OVER)

7. Install new A785-43 hose with soft cuff (portion without wire) over engine fitting; secure hose with retained clamps.

NOTE

Applying A257-8 rubber lubricant to hose bore at ends facilitates installation.

8. Install screw securing air/oil separator's can-to-frame clamp. Verify security.
9. Tighten screw securing separator's breather tube.
10. Connect black oil drain tube to separator's can & tighten B277-4 clamp. Verify security.
11. Install air box assembly per MM § 6.480, if removed. Install engine RH cowling.
12. Make appropriate maintenance record entries.

APPROXIMATE COST:

Parts: No charge for one A785-43 if ordered by 31 May 2020. Reference helicopter serial number when ordering.

Labor: 0.5 man-hour for R44 and R44 Cadet Helicopters.
1.0 man-hour for R44 II Helicopters.

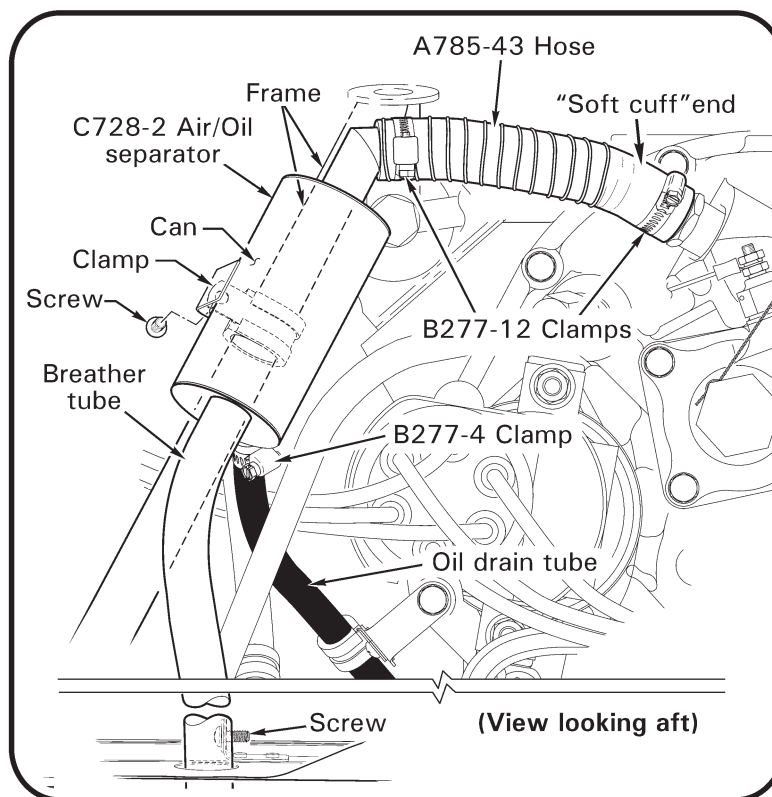


FIGURE 1

THE DESIGN ENGINEERING ASPECTS OF THIS BULLETIN HAVE BEEN SHOWN TO COMPLY WITH APPLICABLE FEDERAL AVIATION REGULATIONS AND ARE FAA APPROVED.