

R22 SERVICE BULLETIN SB-117
(supersedes R22 SB-115)

DATE: 11 March 2020

TO: R22-series Owners, Operators, and Maintenance Personnel

SUBJECT: Air/Oil Separator Hose

EFFECTIVITY: R22 Helicopters S/N 4783 thru 4813. Also helicopters retrofitted with air/oil separators.

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

BACKGROUND: R22-series helicopters equipped with air/oil separators are susceptible to kinking of the A729-75 hose at the engine breather fitting. This includes A729-75 hoses fitted with internal springs either at the factory or per R22 SB-115. A kinked hose could cause the crankcase to vent through the separator drain back tube resulting in loss of engine oil. 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.
3. Loosen B277-4 clamp and disconnect black oil drain tube from air/oil separator's can.
4. Loosen bolt 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 B277-12 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 bolt securing separator's breather tube.
10. Connect black oil drain tube to separator's can & tighten B277-4 clamp. Verify security.
11. 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.

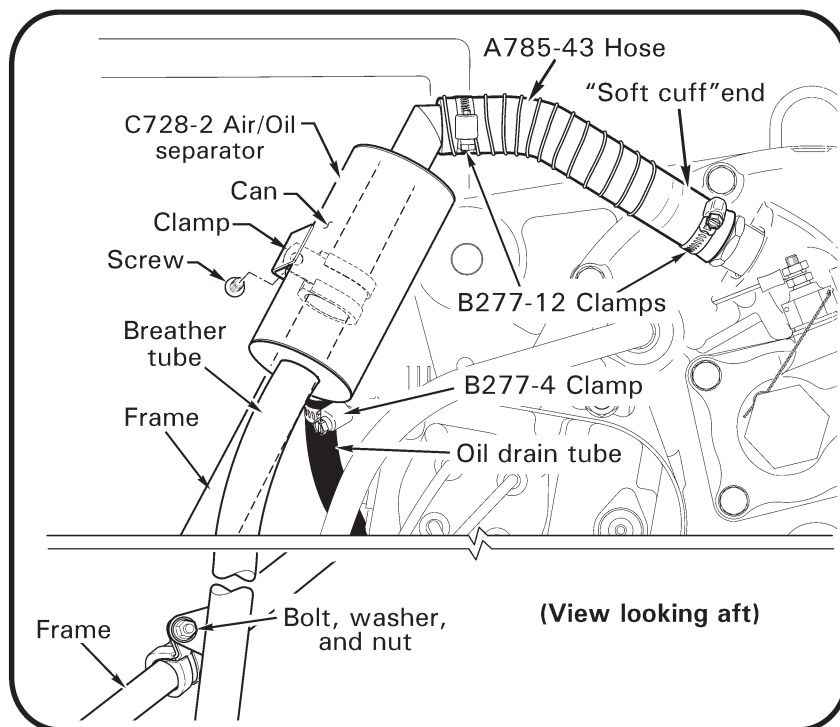


FIGURE 1

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