

**R66 SERVICE BULLETIN SB-07**

**DATE:** 03 July 2013

**TO:** R66 owners, operators, and maintenance personnel

**SUBJECT:** Throttle Control Routing

**ROTORCRAFT AFFECTED:** R66 helicopters S/N 0004 thru 0394 except 0097, 0169, 0174, 0187, 0199, 0233, 0258, 0265, 0266, 0267, 0276, 0279, 0280, 0283, 0284, 0287, 0288, 0291, 0292, 0293, 0295, 0296, 0311, 0312, 0317, 0325, 0326, 0342, 0343, 0347, 0350 thru 0357, 0367, 0368, 0372, 0373, 0374, 0378, 0380, 0388, 0391, 0392, & 0393.

**TIME OF COMPLIANCE:** Within next 100 flight-hours or by 31 October 2013.

**BACKGROUND:** RHC has received a report of a broken C522-10 control's inner wire, causing a loss of throttle control. The control wire broke near a mounting clamp where the control was routed with a sharp bend. This bulletin requires verifying the control is not damaged and that control bends have a minimum radius.

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**COMPLIANCE PROCEDURE:**

1. Refer to R66 Maintenance Manual (MM) § 6-70. Remove F461-1 (collective cross tube) and F463-1 (mid tunnel) cover assemblies.
2. Fabricate a 3.0-inch radius maintenance aid from sheet metal or wood (refer to Figure 1 for suggested template).
3. Refer to Figure 2. Using maintenance aid, verify C522-10 control has 3.0-inch minimum radius in bends shown. If required, loosen hardware securing adjacent clamps and adjust housing position in clamps. Tighten hardware and repeat step until bend radii are within limit.
4. If control routing was adjusted in previous step, due to a sharp bend, replace control's inner wire (P/N SSW-050-C522-10) and rig throttle control per MM § 76-11.
5. Raise collective full up. Verify control deflects 0.1-1.0 inch at trim on weldment when collective is lowered. If required, loosen hardware securing adjacent clamps and adjust housing position in clamps. Tighten hardware and repeat step until deflection is within limit. Maintain 3.0-inch minimum radius with collective up and down.
6. Install F463-1 cover assembly. Verify control is not pinched between collective and F463-1 cover assembly when collective is lowered. Install F461-1 cover assembly.
7. Make appropriate maintenance record entries.

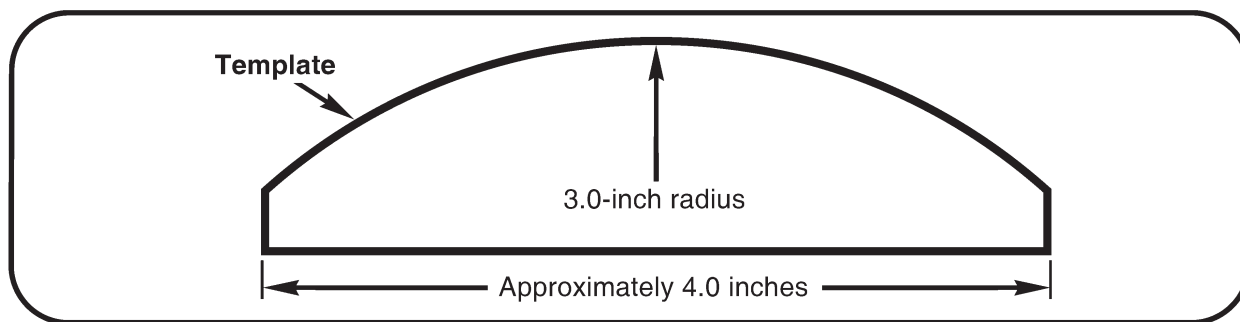
(OVER)

**Approximate Cost:**

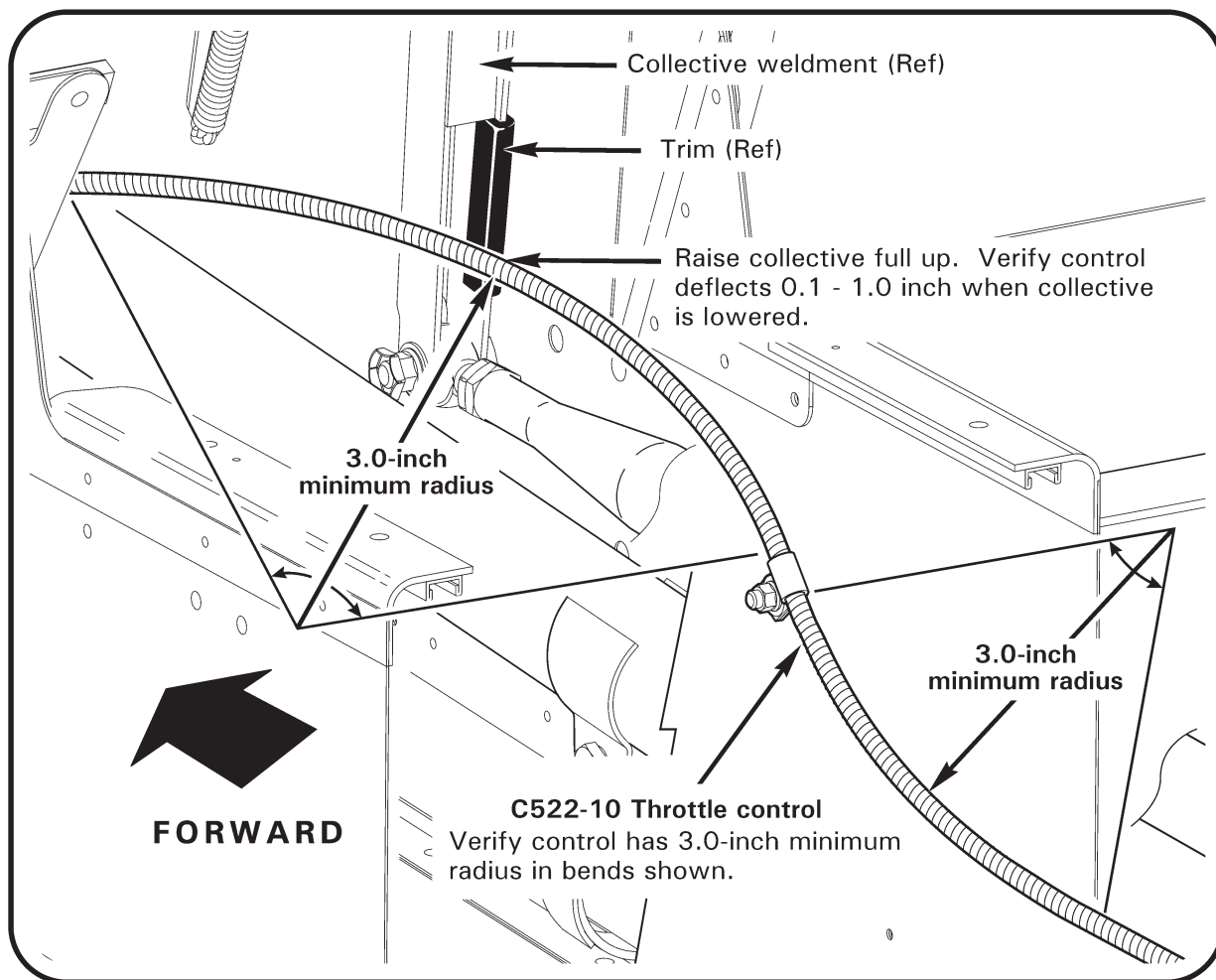
Parts: No charge for SSW-050-C522-10 wire if ordered by 31 October 2013. Order must include helicopter serial number.

Parts may be obtained from any R66 Dealer or Service Center, or ordered directly from assigned [RHC Customer Service Representative](#) via email, fax, or phone.

Labor: 1.5 man-hour.



**FIGURE 1: Suggested template for maintenance aid.**



**FIGURE 2: View of C522-10 Throttle control in mid tunnel.**

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