

KI-204-1 (14V) R22 & R44-series Airframe Provisions for Single LED-Strobe Tailcone Kit Instructions

KI-204-2 (28V) R44-series Airframe Provisions for Single LED-Strobe Tailcone Kit Instructions

Kit removes A708 strobe power supply and provides wiring for current production (LED strobe-equipped only) tailcones. R44-series helicopters may also require secondary ground wire; refer to KI-251 for affected serial numbers.

NOTE

Visit www.robinsonheli.com to verify kit instructions are current revision. Review instructions before installation; contact RHC Technical Support with questions. Verify kit contents match list; contact RHC Customer Service if parts are missing or damaged.

ITEM	PART NUMBER	KIT CONTENTS	QTY PER KI-204-1	QTY PER KI-204-2
1	KI-204Instr.	Kit Instructions	1	1
2	A708-13	Strobe Light (28V LED, Red)	0	1
3	A708-14	Strobe Light (14V LED, Red)	1	0
4	B158-10-1.25	Heat Shrink, 5/8 inch diameter (1¼ inch length)	1	1
5	B263-2	Socket	4	4
6	B263-15	Housing (3-socket)	1	1
7	B263-17	Housing (4-socket)	1	1
8	KI-204-2038	Wire Assembly Includes: [1] B263-2 Terminal – Socket [1] B274-20 Wire, 8 feet (marked “-2038”)	1	1
9	MS3367-5-9+	Ty-rap (Note: “+” in part number indicates 20-qty pack)	2	2
10	MS3367-7-9+	Ty-rap (Note: “+” in part number indicates 10-qty pack)	2	2
11	MS35206-234	Screw	4	4

Special Tools

- Wire stripper
- Pin extractor
- Pin/socket crimper
- Heat gun

Kit Instructions

1. Turn BATTERY switch OFF. Pull STROBE, LTS, & WARN LTS circuit breakers.
2. a. R44 series: Remove tailcone cowling. Open main rotor gearbox compartment access doors. Remove C474 trim and cover between aft seat backs, and right aft seat back assembly.
- b. R22 series: Remove tailcone fairing. Open main rotor gearbox compartment access doors. Remove right seat back assembly.

Kit Instructions (continued)

3. Near tailcone attachment, locate within airframe harness the 3-socket housing containing wires (-5), (-109), & (-503). Extract sockets from housing or cut wires as close to housing as possible. Discard removed housing. As required, strip wires (-5), (-109), & (-503) and crimp a new B263-2 socket on each wire. Perform crimp inspection per Figure 2. Verify security of sockets.
4. Refer to Figure 1. Install sockets and attached wires (-5), (-109), & (-503) into new B263-17 (4-socket) housing at locations shown. Install socket and attached wire of new KI-204-2038 wire assembly into remaining location in housing. Verify security of sockets in housing. Slide B158-10-1.25 heat shrink over housing wire entrance and apply heat.
5. Cut and discard ty-raps securing existing gray-colored 3-conductor shielded wire between strobe power supply and tailcone attachment; discard wire and attached connectors. Route KI-204-2038 wire along airframe harness to strobe power supply and secure wire and harness to airframe with appropriately-sized ty-raps.
6. Refer to Figure 1. Disconnect remaining (power) connector from strobe power supply and remove power supply & associated mounting hardware. Verify KI-204-2038 wire has sufficient length to connect to strobe (power) connector and trim wire to length. Crimp B263-2 socket on wire. Perform crimp inspection per Figure 2. Verify security of socket. Install socket and attached wire to new B263-15 housing. Verify security of socket in housing. Connect new B263-15 housing to strobe (power) connector and secure with appropriately-sized ty-raps.
7. Verify correct voltage marking on A708 strobe light assembly. Remove hardware securing retainer, lens, and gasket to strobe light. Connect strobe light and tailcone wiring at connectors, and install MS35206-234 screws securing strobe light to tailcone. Verify security.
8. Install tailcone assembly per R22 Maintenance Manual (MM) § 4.312, or R44 MM § 4.300, if not already installed.
9. Function check strobe light, tail light, and tail rotor gearbox chip detector circuits.
10. As applicable, install removed fairing, cowling, cover, and seat back assembly.
11. Weigh helicopter and calculate new CG per R22 MM § 18-20, or R44 MM § 1.230. Revise helicopter's Weight and Balance Record in Pilot's Operating Handbook (POH) Section 6.
12. Make appropriate maintenance record entries.

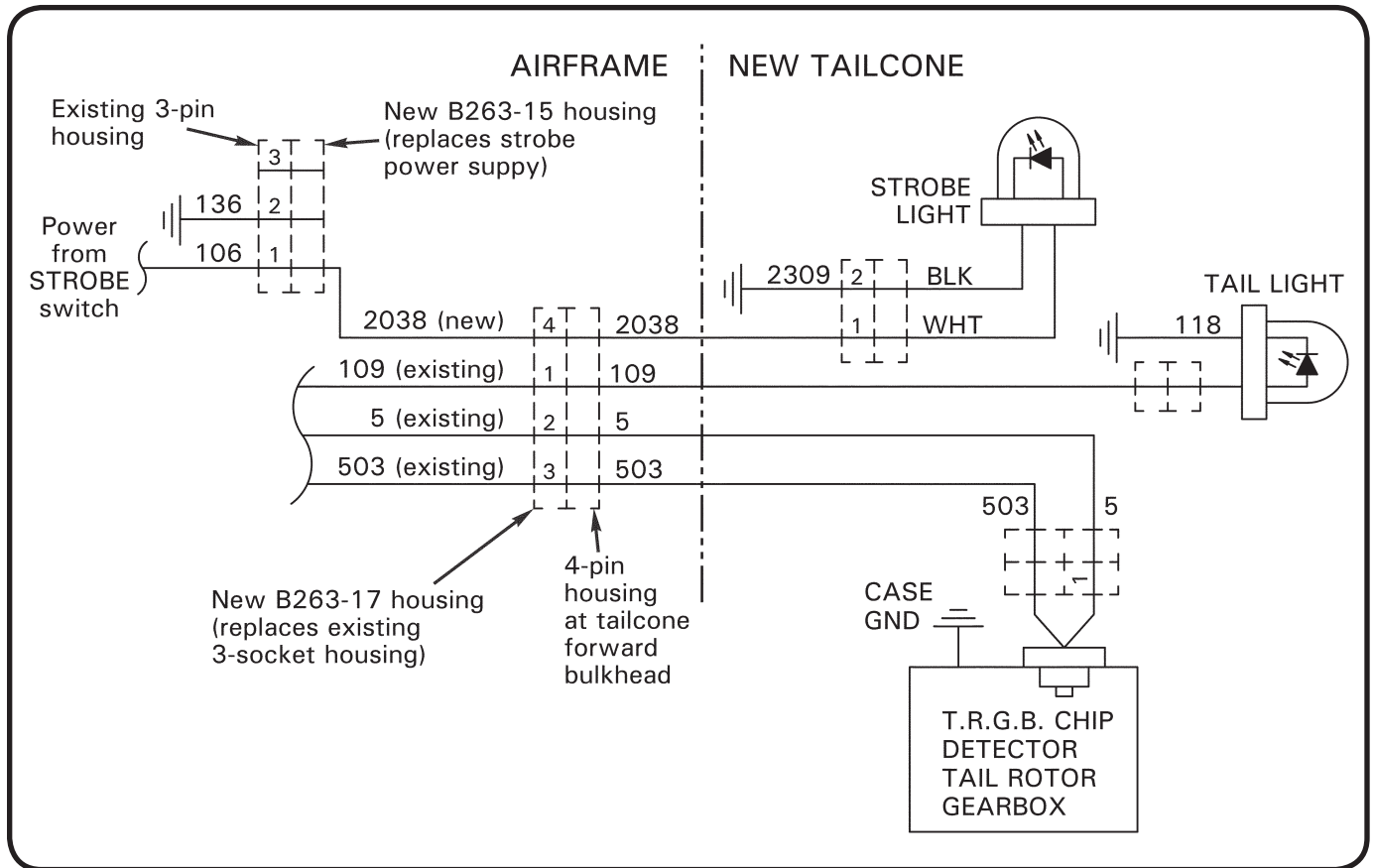


FIGURE 1 Wiring schematic

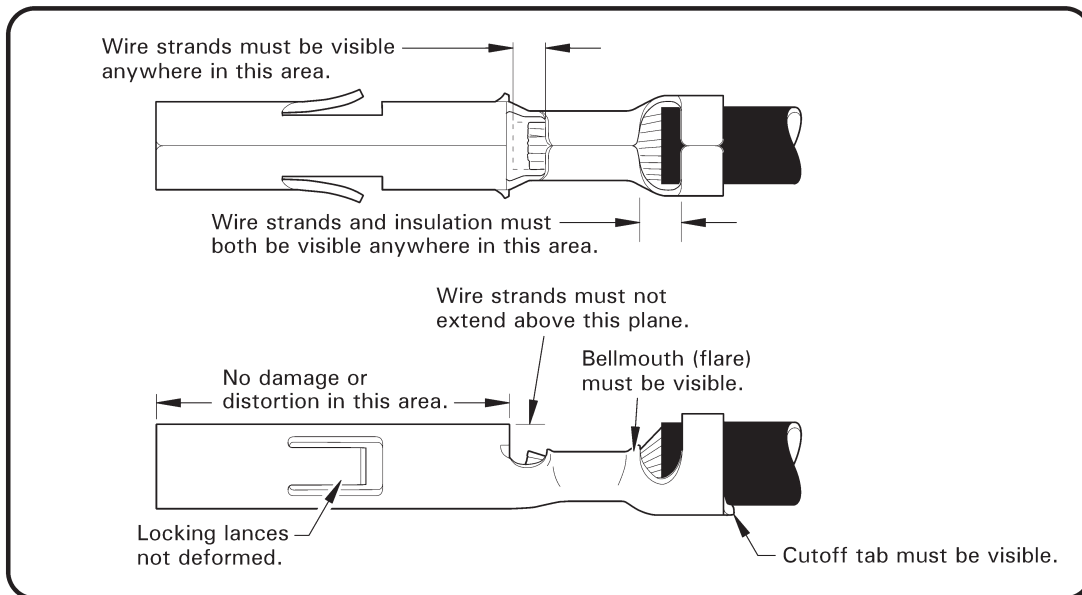


FIGURE 2 Crimp Inspection
(installed socket shown)