

**R22-series Starter Warning Circuit Conversion Kit Instructions**

*Kit installs fuse assembly to provide protection for starter warning electrical circuit. Applicable to R22 S/N 4880 & prior.*

**NOTE**

Visit [www.robinsonheli.com](http://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
1	KI-290-1Instr.	Kit Instructions . . . . .	1
2	B330-16	Palnut . . . . .	1
3	KI-290-1A	Fuse Assembly (supplied with [1] M39029/58-360 pin). . . . . Includes: [1] B260-6 Terminal [1] D269-5 Plug [1] B304-16 Fuse Assembly [1] B274-722 Wire, 22 gage, 24-inch length (marked "-3245 KI-290")	1
4	MS3367-4-9+	Ty-Rap (Note: "+" in contents part number indicates 20-qty pack) . . . . .	1
5	MS3367-5-9+	Ty-Rap (Note: "+" in contents part number indicates 20-qty pack) . . . . .	1

**Special Tools**

- Wire stripping and crimping tools

**Kit Instructions**

1. Turn BATTERY switch OFF. Disconnect battery per R22 Maintenance Manual (MM) § 33-10.

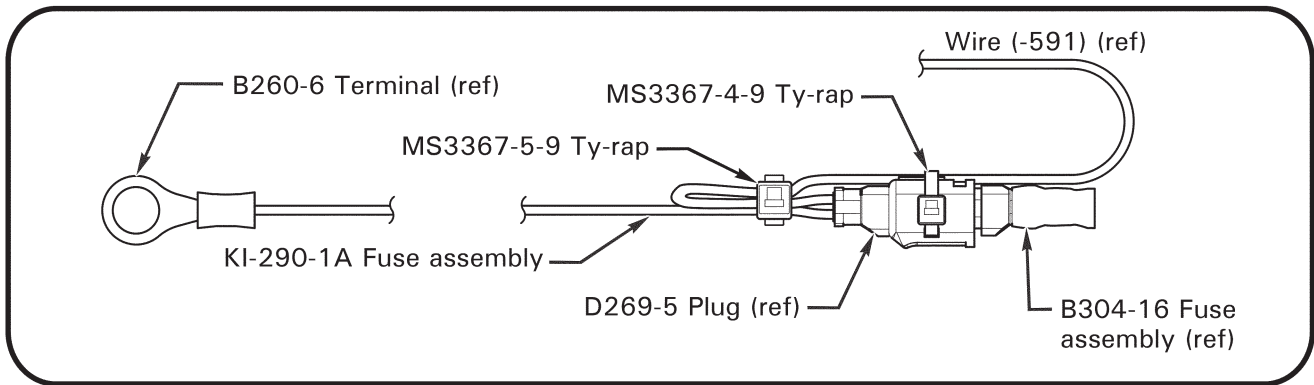
**NOTE**

Parenthetic dash numbers, such as (-591), indicate number marked on wiring insulation (if single conductor), or jacket (if multi-conductor and/or shielded).

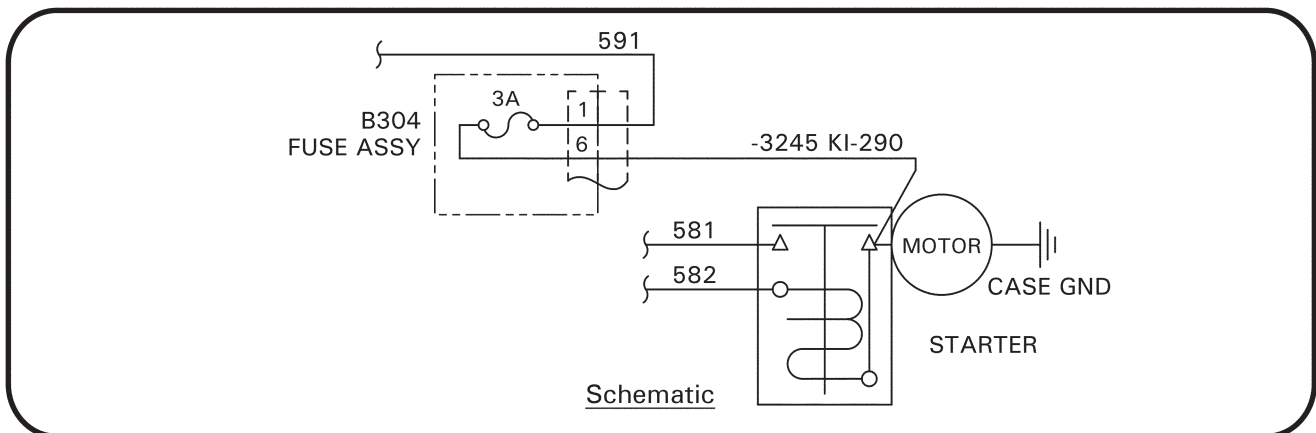
2. Refer to R22 Illustrated Parts Catalog (IPC) Figure 71-23 or 71-29. Locate starter and disconnect wire (-591). Retain nut and lockwasher.
3. Trim wire (-591) 20 inches from ring terminal. Strip end and install M39029/58-360 pin supplied with KI-290-1A on wire (-591). Verify security of pin.
4. Refer to Figures 1 and 2. Connect wire (-591) into D269-5 plug as shown and secure wires using appropriately sized ty-raps. Cinch ty-raps until snug without over-tightening, and trim tip flush with head.
5. Install B260-6 ring terminal from KI-290-1A fuse assembly to starter using retained nut and torque to 60 in-lb.

**Kit Instructions (continued)**

- 6. Install new B330-16 palnut and torque to 20-40 in-lb.
- 7. Connect battery per MM § 33-10
- 8. Make appropriate maintenance record entries. Weight and Balance change is negligible.
- 9. Functional test STARTER ON caution circuit by having appropriately rated person run-up helicopter and verify starter motor is engaged in accordance with Pilot's Operating Handbook (POH) Section 3.



**Figure 1 KI-290-1A installation**



**Figure 2 Schematic**