

Issued: 21 DEC 2000

KI-154 R22 14V AFT BATTERY RELAY UPGRADE KIT

KIT CONTENTS:

1 each	A780-33	battery cable
2 each	AN3-4A	bolt
2 each	B158-103	heat shrink, 1-inch length (B158-103-1)
2 each	B260-2	ring terminal
1 each	B415-1	relay
1 each	KI-154INSTR	Kit instructions
5 each	MS3367-4-9	ty-rap
1 each	MS25171-2S	nipple

INSTRUCTIONS: (refer to Figure 1)

1. Verify kit contents match above list. Contact RHC if any parts are missing or damaged.
2. Verify Master switch is off. Remove forward-left side skirt and battery box cover. Disconnect negative ground cable from battery then disconnect positive cable from battery. Washers used to shim between cable terminals and battery posts, if any, are to remain in place.
3. Disconnect -64 wire, B304-2 diode, and -65 & -66 wires/diodes from battery relay coil terminals. Discard B304-2 diode.
4. Disconnect positive cable (including insulating nipple) and -64 wire from relay and discard.
5. Disconnect remaining -580 & -581 cables from relay. Existing insulating nipple to remain on cables. Remove and discard relay.
6. Remove insulating nipples and cut #10-size ring terminals from both -65 & -66 wires/diodes at edge of terminal crimp. Strip 0.25 inch of clear heat shrink from cut diode leads; avoid nicking leads. On both cut diode leads, install a 1-inch length of B158-103 heat shrink followed by a B260-2 ring terminal. Crimp ring terminals on leads. Position heat shrink to cover ring terminal insulation and shrink with heat gun.
7. With terminals pointing aft & up and utilizing existing clamps, install B415-1 relay per Figure 1. Reposition MS21919WDG5 clamp as shown to allow frame clearance with -22 & -23 wires. As required, install supplied AN3-4A bolts in MS21919WDG clamps to maintain 2-4 threads exposed beyond nuts.

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8. Install MS25171-2S nipple on A780-33 cable at -64 wire end. Attach both -64 wire and -66 wire/diode to relay coil positive terminal (positive terminal has number 86 and polarity mark adjacent to it). Torque screw to 9-11 inch-pounds.
9. Attach A780-33 cable to relay inboard terminal stud (stud has number 88 adjacent to it) using supplied wave washer and brass self-locking nut. Lightly tighten nut.
10. As required, clean ring terminals on -580 & -581 cables. Attach cables to relay outboard stud (stud has number 88a adjacent to it) using supplied wave washer & brass self-locking nut. Lightly tighten nut.
11. Attach -65 wire/diode to relay coil negative terminal (negative terminal has number 85 and polarity mark adjacent to it). Torque screw to 9-11 inch-pounds.
12. Connect A780-33 cable to battery positive terminal.
13. Ensure cable clearance with surrounding structure; reposition relay and/or cable(s) as required. Torque brass self-locking nuts on relay to 105-115 inch-pounds.
14. As required, coat relay terminals with suitable corrosion preventative compound. Position insulating nipples over relay stud/cable connections and secure with ty-raps.
15. Ensure Master switch is off. Connect battery ground cable.
16. Verify proper relay function.
17. Coat battery terminals with suitable corrosion-preventative compound. Secure battery box cover and forward-left side skirt. As applicable, verify heater blower motor function.
18. Reset clock.
19. Make appropriate maintenance record entry.

