

Fitting Instructions for Rovers North Mt. Mansfield Heater

Kits - MHKIIBE, MHKIIBL, MHKIICE, MHKIICL & MHKIII

Read All Instructions Completely Before Beginning!



Mt. Mansfield Heater Kits Available from Rovers North

Base Kit For Series II, IIA

Includes the heater core assembly and the blower assembly with air hose and gasket. MHKIIBE kit also includes splash guard and hardware.

Series II, IIA up to 1969 Series IIA 1969-71

MHKIIBE MHKIIBL

MHKIICL

Complete Kit For Series II, IIA

Includes Base Kit plus coolant hoses, coolant flow valve, control cable, 2 speed switch, intake seal and air intake grill, thermostat with gaskets, wire harness and hose clamps. MHKIICE

Series II, IIA up to 1969 Series IIA 1969-71

Mt.	Ma	nsfield	Heater	Kit,	Series	III

Includes the heater core assembly and the blower assembly with air hose and gasket and clamps, large diameter heater hose, pipe nipples and valve assembly with sealing washers, thermostat and gaskets.

Series III



Interior Distribution Box Kit, Series II, IIA

Includes passenger side distribution box with doors for directing floor heat and defrost, defroster tubes and defroster pans for windscreen. Designed to fit Land Rovers from 1959 through 1967, this kit can also be installed in later Ser. IIA 1968 through 1971 without factory distribution systems. Series II, IIA DBKII

Read Entire Instructions Before You Begin Installation!

800 403-7591



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Fitting Instructions for Rovers North Mt. Mansfield Heater

Remove Bonnet. Step 1.

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Step 2. Drain Cooling System.

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- **Remove Old Heater Assembly** (*if equipped*). Step 3.
- Remove Support Rod (if equipped) from passenger side (right) Step 4. of bulkhead. (See FIG. 1)
- Cut Support Rod Bracket off of bulkhead from passenger Step 5. side but, do not remove any of the bulkhead! Make sure all of the bracket is gone - the Heater Core Box is very tight fitting. (See FIG. 2)
- Step 6. **Remove old splash guard.** If installing an MHKIICL or MHKIII, retain the splash guard for reuse. Kit MHKCE contains a new splash guard.

Step 7. Locate and Cut Air Intake Hole.

Early Land Rovers need a hole cut into the passenger side wing. To locate this hole correctly, (See FIG. 3) measure 6" horizontally from the bulkhead to center of hole and 5 1/2" vertically down from the wingtop to center of hole. Mark hole 5" in diameter. TIP -> Make sure that the hole is exactly 5" in dia. as the air intake grill screw holes are very close to the edge of the 5" hole. (See FIG. 4) Hold the Air Intake Grill in place, and mark the three screw holes. Drill these holes with 1/8" bit. These holes will be very close to the edge of the 5" Air Intake Grill hole.



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FIG. 1



FIG. 2





FIG. 3

FIG. 4

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Fitting Instructions for Rovers North Mt. Mansfield Heater

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Step 8. Install the foam seal over the lip of the side of the blower unit. Place the blower unit and installed seal on top of the footwell so the foam seal and blower unit line up with the air intake grill. Make sure there is space between the top of the blower and the underside of the wing to avoid rattling. Also, be sure the foam seal is snuggly pressed to the wing.

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Mark the holes in the base and drill out with a 9/32" bit, as shown in figure 6. It may be necessary to move the blower unit inside the cab and mark some of the holes after a pilot hole has been drilled. *(See FIG. 5 for approx. bole locations)*

- **Step 9. Install the 4" air hose** over the output side of the blower unit. Use a 4" hose clamp to hold in place.
- **Step 10. Bolt in the blower motor assembly unit**, making sure the foam seal is properly placed over the air intake grill on wing. *Note: Extra washers can be used for shimming the blower assembly and the heater box. (See FIG. 6)*
- **Step 11.** If installing the MHKIICE, MHKIICL, *(see FIG. 7)* to mark the hole for the heater box. Drill out mounting holes and then caulk around the unit. Bolt the unit in place. For Series III (MHKIII) the heater box can be caulked and bolted in. *(See FIG. 7)*





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- **Step 12. Install the 4" output hose from blower** onto heater box using the 4" clamp. *(See FIG. 8)*
- Step 13. Connect Blower Wires to Heater Switch (See FIG. 9)



- Step 13a. (IIA Only) Blower Motor Switch Location (MHKIICE and MHKIICL) Find a suitable spot on the dashboard, within reach of the driver, and mount the switch. The hole needs to be 9/16". Run wires through an existing bulkhead grommet. Blower Motor Switch Wiring: Connect (with single bullet connectors supplied) the brown to brown wires and green to green wires. Connect the red wire to an available post on the fuse box that is powered up when the ignition switch is in the on position.
- **Step 14. Remove the cover from the heater core assembly and carefully** pull out the heater core. Bolt in the core base on the bulkhead. Carefully reinstall the heater core taking care that the two heater pipes on the unit are totally clear of the heater core cover. Reinstall the cover.
- **Step 15. Install The Heater Hose:** By cutting the hose to the lengths needed and securing in place with clamps (*See FIGs. 10 & 11*). *It may be necessary to use the 2 nipples and copper washers on the engine head.*
- Step 16. Install Heater Control Valve Cable (On Series III models, you can use the original cable). Remove the plug that is next to the choke control cable. Remove nut from end of heater cable and feed cable through the hole, then reat tach the nut and tighten. Locate and install the Heater Control Valve on the Bulkhead so that it is in back of the head, above the head's water outlet. Drill and mount with screws supplied.
- Step 17. Install new thermostat using new gaskets.
- Step 18. Bleed heater system To ensure no air locks occur with the heater valve in open position. Run engine and test for leaks. To ensure adequate heater operation, optimum engine temperature must range between 180°F-195°F or 80°C 88°C.
- **Step 19. If you own a Series III and Late Series IIA**, you can now install the splash guard. On the series II and pre 1969 Series IIA, the new splash guard(RNE277) will be installed. First the splash guard bracket will need to be located. Hold the new splash guard's bottom up so it aligns with the bolt holes on the footwell. The top of the splash guard should now be lightly pressed to the 4" air hose that runs between the blower and the heater core. When it fits best, mark the 5 rivet holes for the bracket that will be placed in the wing top. Drill out and rivet so the rivet heads are on the top of the wing. Press the (3) speed nuts onto the bracket. Bolt the bottom of the splash guard.







FIG. 10



FIG. 11 - Mansfield Heater Installed

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Mt. Mansfield Heater Parts Listing

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Mansfield Heater Kits Parts Listings

ECIALISTS

MHKIIBE Early Base Kit

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- 1 Fan and Core Assembly
- 1 Blower Hose and Clamp
- 1 Adapter Plate
- 1 Bracket for Splash Guards
- 5 Rivets
- 1 Splash Guard (#RNE277)
- 3 Spirenuts (#RNB681)
- 3 Bolts (#RNB688)

MHKIIBL Late Base Kit

- 1 Fan and Core Assembly
- 1 Blower Hose and Clamp (#DEF4)
- 1 Adapter Plate

MHKIICE & MHKIICL

Complete Early & Late Kits

MHKIICE	1 -	Fan and Core Assembly	
MHKIICL	1 -	Blower Hose and Clamp	
	1 -	Adaptor Plate	
MHKIICE	1 -	Bracket for Splash Guards	5
Early	5 -	Rivets	
	1 -	Splash Guard	(#RNE277)
	3 -	Spirenuts	(#RNB681)
	3 -	Bolts	(#302150)
MHKIICL	1 -	Air Intake Grill	(#RNB931)
Late	1 -	Foam seal	(#RNB952)
	1 -	Control Valve	
	1 -	Control Cable	
	1 -	5' Heater Hose	
	6 -	Clamps	
	1 -	Thermostat	(#RNC320)
	1 -	Gasket	(#RNC245)
	1 -	Gasket	(#RNB573)
	2 -	Pipe Nipples	(#RNC663)
	2 -	Sealing Washers	(#RNB544)
	1 -	Switch	(#RNE805)
	1 -	Wiring Harness	

Heater hardware, Early, Late and Base Kits:

Series III

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<u>Series IIA</u>	
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- 10 1/4 x 3/4 bolts 10 - 1/4 lockwashers
- 12 1/4 flat washers
- 2 1/4 20 nuts
- 24" Duct Hose
- 1 Name tag
- 4 1/4 x 3/4 bolts 2 - 5/16 nuts

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4 - 5/16 lock washers

2 - 5/16 x 1 1/4 bolts

2 - $5/16 \ge 3/4$ bolts

- 14 5/16 flat washers
- 4 1/4 lock washers
- 4 1/4 flat washers
- 24" Duct Hose
- 1 Name tag
- <u>MHKIII Series III Kit</u>
 - 1 Blower and Core Assembly
 - 1 Blower hose and Clamps
 - 1 5' Heater Hose
 - 6 Clamps
 - 1 Heater Valve
 - 2 Pipe Nipples (#RNC663)
 - 2 Sealing Washers (#RNB544)
 - 1 Thermostat (88°C) (#RNC320)
 - 1 Gasket (#RNC245)
 - 1 Gasket (#297874)
 - 1 Seal (# NLA)



Helpful tips - Most common reasons for less than adequate heater performance.

1. Low engine heat

To ensure adequate heater operation, optimum engine temperature must range between 180°F-195°F or 80°C - 88°C. *Check to make sure your thermostat is the higher 88°C version.*Extremely low outside temperatures require radiator muff to obtain correct engine heat.
Low cockpit heat could be due to partially open heater valve. Ensure heater valve is opening fully when cable is pulled out at dash.

2. Trapped air in heater core

- System was incorrectly bled, causing air locks and spiking or low/high temperatures. With heater valve open, remedy with full system bleed.

4. Inadequate system pressure

- Defective radiator cap or coolant leak. Replace radiator cap with correct Genuine Parts 10psi cap (*part# RNE632*) and ensure there are no coolant leaks.

5. Inadequate coolant flow

- Mt. Mansfield heaters require 5/8" heater pipes, hose & valves. Factory 1/2" pipes adapted to 5/8" will not supply adequate coolant flow. Do not use original 1/2" coolant valve with the Mt. Mansfield heater.

6. Heater blower turns slowly

- Ensure heater blower motor is adequately grounded to bulkhead and or chassis.



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Poor		Fair		Good		Verv Good		Excellent	
1	2	3	4	5	6	7	8	9	10

Ideas, Comments, or Corrections (please include specifics, such as page number, or step number):

THANK YOU!

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