

Jaguar / Daimler



MC-17

Manual Control

For

Delanair MKII

Climate Control System

Jaguar 1974-1987

Models

XJ6, XJ12, XJS

Climate Control Operational Summary

The Delanair Mark II air conditioning / heating system fitted to Series II & III Jaguar models XJ-6, XJ-6L, XJ-12, XJ-S and Daimler luxury cars is a climatic control type using two manual controls. One selects the desired temperature; the other selects mode of operation.



The system was designed to automatically maintain any temperature selected at the temperature selector (65°F - 85°F) by comparing the car's interior temperature with that selected at the manual selector. The difference in temperature at these two points produces an electronic signal which, through an amplifier to a motor driven camshaft (Servo), which driven in either direction, operates various relays, micro-switches, vacuum switches, linkage and flaps; programming the unit to automatically cause hot or cold air to flow to the car's interior, depending upon the temperature selector setting.

The air temperature entering the interior may be hot or cold or an infinitely variable mixture of the two. The air is first passed through the evaporator, to be cooled and dried, then through a series of blending flaps which temper it by varying the amount of air passing through the heater core and finally introduced into the interior by two four-speed fans.

If quick or slow air distribution of heating or cooling is desired, the automatic fan speed functions can be overridden to provide high or low fan speed. The low speed fan operates in Auto and LO positions automatically; however, if high or low speed fan is selected, all other functions still remain automatic.

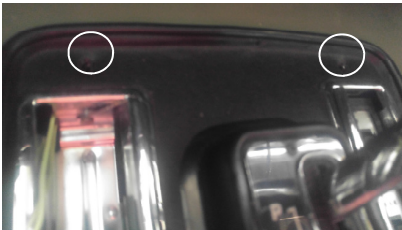
The Manual Control Switch assembly is designed to by-pass the amplifier and the sensing system, however, the operations of the Servo unit, including flap operation and fan speeds, remain intact.

Installation

Installation of the Climate control Manual Switch requires the disconnecting and by-pass of the A/C amplifier. The A/C amplifier is located on the left side of the transmission tunnel under the dash. Access is by removing the left side cheek & vent panel.



1. Disconnect the battery.
2. Remove the left side cheek & vent panel by removing the two screws in the vent and sliding the panel slightly toward the front of the car to disengage the retaining clip.
3. Disconnect the white amplifier multi-conductor cable plug by inserting a flat blade screwdriver in the crack between the top and bottom and gently twisting. The halves will separate enough that you can pull them apart.
4. Remove the desired ashtray insert from the center console ski-slope by reaching in with your fingers and pulling up.
5. Remove the 3 screws securing the ski-slope panel, 2 at the front and 1 at rear.



6. Lift the ski-slope panel from around the shift assembly. It is not necessary to disconnect any wires. Lift the panel up enough to gain access to underside of desired ashtray.
7. Feed manual control switch wires thru the opening of the ashtray mount on side opposite of hinged lid. Start by feeding the fuse holder on the black wire, followed by the 3 remaining wires with pin connectors.

Installation—Continued

8. Install Manual Switch assembly into ashtray base unit taking care to feed wires during installation to avoid damage. Press firmly to seat switch assembly into bottom of ashtray base
9. Feed wires thru center console and under the front corner of the ski-slope panel exiting at left cheek panel. *A stiff guide wire can be used to aid in advancing the wires thru the console.*
10. Insert pin wires from switch assembly into numbered holes of plug unit until they click being sure to match the wires to the numbered holes. Verify pins are seated into plug by gently pulling on wire.
11. Connect new switch plug into female side of white car harness connector previously occupied by amplifier. Being sure to match the key (or bump) on the new male connector to the slot on the female connector.
12. Insert 1 amp fuse into fuse holder and connect fuse holder cap by gently pushing and twisting. Connect fused ground wire to any solid grounding point on the steel car body.
13. Replace ski-slope panel by reversing steps 5 and 6.
14. Reconnect battery
15. Test operation of manual control.

Notes on Operation:

Operation of a properly functioning servo is protected by two limit switches, full cold and full hot. Depressing the manual control in either direction will provide power to the servo, driving it to its limit switch. Once opening the limit switch, you should no longer hear the whir of the servo motor and further travel of the servo is prevented.

Please note, a failed limit switch, can allow travel beyond the servo's normal operational limits stressing flap rods and causing damage to the internal gears.

Defrost Mode: To operate defrost mode, use manual switch to advance servo to full heat and turn mode control on right hand of console to DEFROST.

Warranty

Thank you for your interest in the products and services of Jag-Aire, LLC

This Limited Warranty applies to the physical goods, and only for physical goods, purchased from Jag-Aire, LLC, (the "Product").

What does this Limited warranty cover?

This limited warranty covers any defects in material or workmanship under normal use during the Warranty Period. During the Warranty Period, Jag-Aire, LLC will repair or replace, at no charge, products (or parts of a product) that proves defective because of improper material or workmanship, under normal use and maintenance.

What will we do to correct problem(s)?

Jag-Aire, LLC will either repair or replace the product at no charge, using new or refurbished replacement parts.

How long does the coverage last?

The Warranty Period for Products purchased from Jag-Aire, LLC is 180 days from date of purchase. A replacement Product or part assumes the remaining warranty of the original Product; or 180 days from the date of replacement or repair, whichever is longer.

What does this warranty not cover?

This Limited Warranty does not cover any problem that is caused by:

- Conditions, malfunctions, or damage not resulting from defects in material or workmanship such as damage to the product as a result of failure to perform the pre-installation tests of in-car equipment.

What do you have to do?

To obtain warranty service, you must first contact us to determine the problem and the most appropriate solution for you.



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