

# **Packard** **SERVICE TECHNICAL** **Bulletin**

Dealer 48T-32  
December 22, 1948

To: REGIONS, ZONES AND DEALERS

Subject: ELIMINATING ENTRANCE OF COLD AIR OR DUST THROUGH FRESH  
AIR HEATERS IN 22ND SERIES CARS

A fresh air duct adapter control valve has been designed for the right side adapter assembly to prevent cold air or dust from entering the front compartment through the heater and defroster outlets when the right side air control knob is in its fully closed position.

A number of these valves are available for Service and may be used to replace control valves in 22nd Series vehicles when it is necessary to correct a customer complaint of this nature.

The new valve may be installed as follows:

1. Raise the bonnet from the right side and remove the bonnet rear locking clamp to provide clearance to disconnect the control cable.
2. Loosen the air duct extension clamp and slide it forward on the extension.
3. Remove the control cable guide bracket clamping screws at the brackets attached to the top of the adapter assembly and to the front of the cowl panel at the upper right side. Disconnect the control cable from the control valve.
4. Remove the cowl side trim panel and the four adapter assembly retaining screws. Then remove the adapter assembly, working from the underside of the car.
5. Remove the control valve pin, the valve, and the valve stop screw from the adapter assembly.

NOTE: On early adapter assemblies, the heater take-off nozzle was held in place with clamps. If the assembly is of the early type, the nozzle should be brazed or spot welded to the adapter and the clamps discarded.

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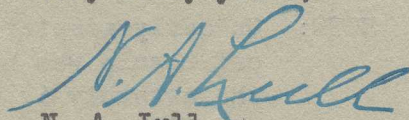
6. Drill two 3/16 inch holes (one in the top and one in the bottom of the adapter) in a vertical line 2 15/16 inches from the forward end of the adapter.
7. Install the new valve using the original valve pin inserted through the relocated holes. The original holes should be covered with tape.
8. Hold the valve in its fully closed position (front end of valve against take-off nozzle side of duct) and twist the valve pin approximately 30 degrees toward the nozzle. Twist the guide bracket to the right (clockwise) approximately 10 degrees from its original position.
9. Install the assembly by reversing the removal procedure and check the operation of the control valve.
10. Turn the right side air control knob to the right or left until it reaches its limit of travel and then turn the knob to its stop in the opposite direction and note the turns or amount of travel.
11. Set the knob at the midway point of total travel and paint a vertical line or stripe on the knob.

When this new valve is installed, the Owner should be advised that turning the control knob fully to the left completely shuts off air to the front compartment through the right air duct. When the knob is turned so that the painted stripe is vertical, air is delivered through the right side ventilator. When the knob is turned fully to the right, air is delivered through the heater.

The flat rate time allowance suggested is 2.4 hours for late type adapter assemblies. For early type assemblies which require brazing or spot welding, the suggested time is 2.9 hours. This improvement in design is being made available for sale to customers desiring the change. No credit will be allowed for either labor or parts.

The new valve may be ordered under part number 415398 - Air Duct Valve Assembly. Suggested list price is \$1.25, Suggested Dealer Net \$ .88.

Very truly yours,



N. A. Lull

Service Technical Manager

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