

# PACKARD MOTOR CAR COMPANY

DETROIT, MICHIGAN

November 18, 1931

REFER TO THIS LETTER BY NUMBER

TO BE NOTED AND INITIALED BY

To PACKARD DISTRIBUTERS AND DEALERS

Subject STARTIX SWITCH SAFETY CUT-OUT

Gentlemen:

A change has been made in the Startix switch in order to prevent the possibility of any ill effects following a backfire.

A safety cut-out will be mounted at the upper end of the suction line from the manifold at the point where it meets the dash. This cut-out consists of a flexible metal diaphragm mounted in proximity to two contact points in such a manner that when the cut-out switch is in its normal position, the current passing from the ignition switch to the Startix unit passes across these two points.

In case a backfire develops from any cause, pressure immediately builds up in the intake manifold, and this pressure operating on the flexible diaphragm moves the diaphragm in such a manner as to force the contact points apart. This breaks the Startix circuit so that the starter switch cannot make contact and the starter motor cannot engage with the fly wheel.

A button is incorporated in the safety switch in such a manner that pressure on the button will return the diaphragm to its normal position, after it has been operated by a backfire. Until this is done the circuit will be open and the automatic starter will be inoperative.

After a backfire, therefore, the Startix will not function until the safety cut-out has been reset, as outlined above, or until the motor has been started by the use of the foot switch. When the motor is cranked with the foot switch, the suction in the intake manifold returns the cut-out diaphragm to its normal position.

In order to prevent the possibility of trouble developing from a backfire, we consider it advisable that these safety cut-outs be installed on all cars in the field, and we are forwarding an initial supply which will be covered as follows:

PA-667 Automatic Starting Switch Safety Cut-Out Assembly

We will leave it to you to order whatever additional cut-outs you require to take care of the cars in your territory.

(over)



The installation should be made as follows:

1. Remove the elbow on the dash which forms a connection for the manifold suction line, and replace with the special elbow in the equipment.
2. Mount the safety cut-out on the new elbow.
3. Disconnect at the Startix unit the wire running to the ignition switch and fasten this free end to one of the binding posts on the safety cut-out.
4. Use the insulated cable assembly which is included in the equipment to connect the remaining binding post on the cut-out with the post on the Startix box which formerly connected direct with the ignition switch.

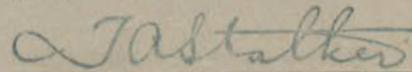
Note: It will be seen that the change in the wiring simply includes the safety cut-out in the line between the ignition switch and the Startix box. This line instead of going direct from the ignition switch to the Startix unit will now go first to the safety cut-out and then from the cut-out to the Startix.

The installation of the cut-out and the change in the wiring requires only fifteen minutes.

The equipments which will be covered by PA-667 will be charged to you in the regular way. Upon the return of the suction tube dash connection a credit will be allowed which will offset the charge made on the original order.

Yours very truly,

PACKARD MOTOR CAR COMPANY



TAS:N  
(e) 2800

T. A. Stalker  
Manager Technical Department

P. S. A limited number of cars equipped at the factory with the Startix equipment do not include the original foot switch. If this equipment is desired it will be supplied upon request.