

# PACKARD MOTOR CAR COMPANY

## DETROIT MICHIGAN

August 11th, 1926.

To Packard Distributers and Dealers.

Subject, High Compression Cylinder Heads.

TO BE NOTED AND INITIALED BY


Gentlemen:

It is possible to install on any 326 motor the high compression cylinder head used on the 426, and the installation will greatly increase the activity of the motor. The smaller crankshaft used prior to the 326 makes it inadvisable to install the head in any such motors.

In order to make this installation, the following parts are required:

- 1—0144511 Cylinder head and core plugs assembly
- 1— 144175 Cylinder head gasket
- 2— 125485 Studs
- 25— 3883 Washers, N. P.
- 1— 142724 Oil pump gear driving shaft assembly

Your order may be entered immediately for whatever equipments you desire.  
In making this installation the following instructions should be observed:

1. Check compression of each cylinder before removing old head to determine whether a carbon and valve job is advisable.
2. Remove old cylinder head.
3. Clean carbon and grind valves if required.
4. Remove the two studs from cylinder block that hold the high tension cable tube assembly, and install two longer studs, Piece No. 125485.
5. Remove thermostat and distributor support bracket from old head and assemble to new head.
6. Install new head using the new cylinder head gasket, Piece No. 144175, and thin washers, Piece No. 3883.
7. Replace distributor head using new drive shaft, Piece No. 142724.
8. Set spark advance at  $1\frac{1}{4}$ " before upper dead center measured on flywheel. If this produces disagreeable detonation set the spark back as required.
9. If new spark plugs are installed the No. 3 Champion should be used. This is the plug now used in production.

If it is possible to install the new head without performing a carbon and valve operation, the work may be done in approximately  $5\frac{1}{2}$  hours, while if it is found necessary to clean the carbon and grind the valves, an additional time of 5.3 hours will be added, making the total time for the job in the latter case slightly under 11 hours.

The Zone No. 1 charge to the customer for the installation should be as follows:

Cylinder head	\$33.80
Cylinder head gasket	.75
Oil pump shaft	1.75
Washers	.25
Studs	.18
Labor	8.25
<b>Total</b>	<b>\$44.98</b>



From this amount a deduction of \$15.00 should be made to cover the net value of the head which is removed, so that the cost to the customer will be approximately \$30.00. If the head removed is of the original 326 design, it may be returned to the Factory for credit at the above figure, and if it is the second design with the spark plugs in the new location, it may be retained in your stock to make a replacement for any customer having the original design head who does not wish to pay for the installation of the high compression type. If a carbon and valve operation is performed, \$8.00 should be added to the above price, as this amount is sufficient to cover the additional work.

Yours very truly,

PACKARD MOTOR CAR COMPANY.

*H. N. Davock.*

H. N. DAVOCK,  
Service Manager.

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